

**JONES & LAUGHLIN  
STEEL COMPANY  
PITTSBURGH  
LIST OF SHAPES**



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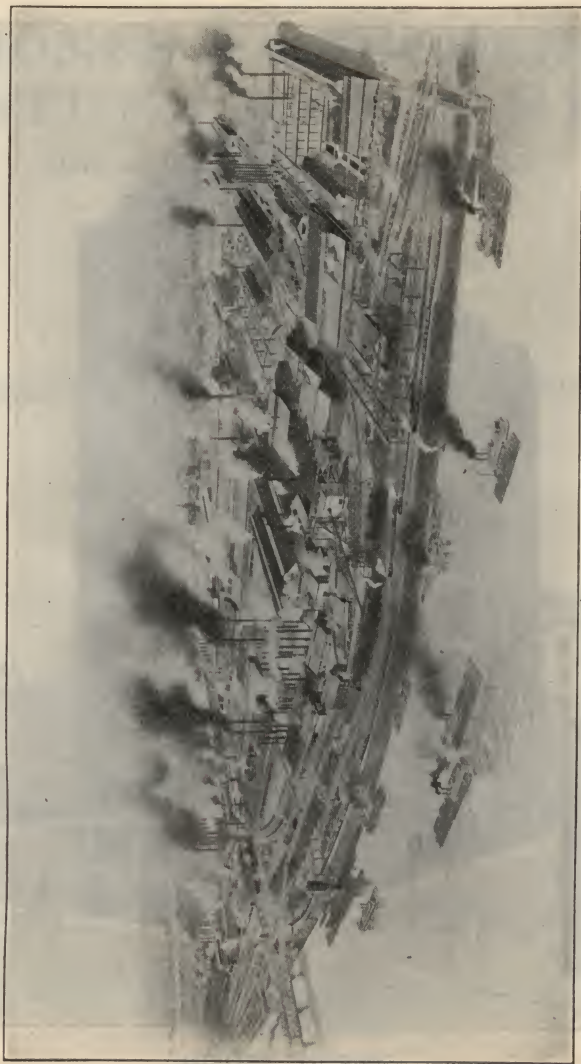
Mike Jackson, FAIA



ELIZA FURNACES AND COKE OVENS



Acad. Clubland  
D-12-21



SOUTH SIDE WORKS



GENERAL OFFICES

*Geo. E. Eckland*

9-12-21

**JONES & LAUGHLIN  
STEEL COMPANY**

**AMERICAN IRON & STEEL WORKS**

**MANUFACTURERS OF**

**BESSEMER AND OPEN HEARTH**

**STEEL  
PRODUCTS**



**GENERAL OFFICES  
PITTSBURGH**

## **OFFICES**

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**GENERAL OFFICES: PITTSBURGH**  
**WAREHOUSES**  
**CHICAGO      PITTSBURGH**

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### **DISTRICT SALES OFFICES**

**BOSTON**  
**131 State Street**

**BUFFALO**  
**White Building**

**CHICAGO**  
**Lake and Canal Streets**

**CINCINNATI**  
**Union Trust Company Building**

**CLEVELAND**  
**Kirby Building**

**DETROIT**  
**Penobscot Building**

**NEW YORK**  
**165 Broadway**

**PHILADELPHIA**  
**Commercial Trust Building**

**PITTSBURGH**  
**Jones & Laughlin Building**

**SAN FRANCISCO**  
**Crocker Building**

**SEATTLE**  
**L. C. Smith Building**

**ST. LOUIS**  
**Boatmen's Bank Building**

**WASHINGTON**  
**Woodward Building**

**Issued August, 1921**

**LIST OF WORKS**

**ALIQUIPPA WORKS**

**BY-PRODUCT COKE PLANT**

**ELIZA FURNACES  
AND  
COKE OVENS**

**HAZELWOOD WORKS**

**KEYSTONE WORKS**

**SOHO FURNACES AND WORKS**

**SOUTH SIDE WORKS**



## PRODUCTS

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### OPEN HEARTH AND BESSEMER STEEL

---

Billets, Blooms, Slabs, Sheet Bars, Skelp,  
Bands, Flats, Hexagons, Rounds, Squares

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Bars for Concrete Reinforcement  
Cold Twisted Squares  
Diamond Bars

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Angles	Beams	Channels
Tees		Zees

---

Plates for Bridges, Tanks,  
Boilers, Cars and Ships

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Agricultural Shapes	Special Shapes
Steel Sheet Piling	Tie Plates
Light Rails and Accessories	

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### FABRICATED STRUCTURAL WORK

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Columns	Girders	Trusses
Plate Work		
Steel Barges		
Mill and Factory Buildings		
Open Tanks		

## PRODUCTS

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### COLD FINISHED STEEL

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Shafting and Screw Stock  
Rounds      Squares      Hexagons      Flats  
Special Shapes  
Pump and Piston Rods  
Cold Rolled Steel Finger Bars for Mowers  
Cold Finished Steel for Axles

---

### FORGED SHAFTS

---

RAILROAD SPIKES  
BOAT AND BARGE SPIKES

---

### PIPE, COUPLINGS TUBULAR PRODUCTS

---

### WIRE

Annealed Wire    Barbed Wire    Galvanized Wire  
Nail Wire      Spring Wire  
Fence Staples    Netting Staples    Woven Fencing  
Wire Rods      Wire Nails

---

TIN PLATE  
Black Sheets  
(Tin Mill sizes)

---

### COKE BY-PRODUCTS



**WE HAVE CATALOGUES OF**  
**COLD FINISHED PRODUCTS**

**WIRE**

**WIRE NAILS**

**WIRE PRODUCTS**

**WOVEN FENCING**

**TIN PLATE**

**Black Sheets**

(Tin Mill Sizes)

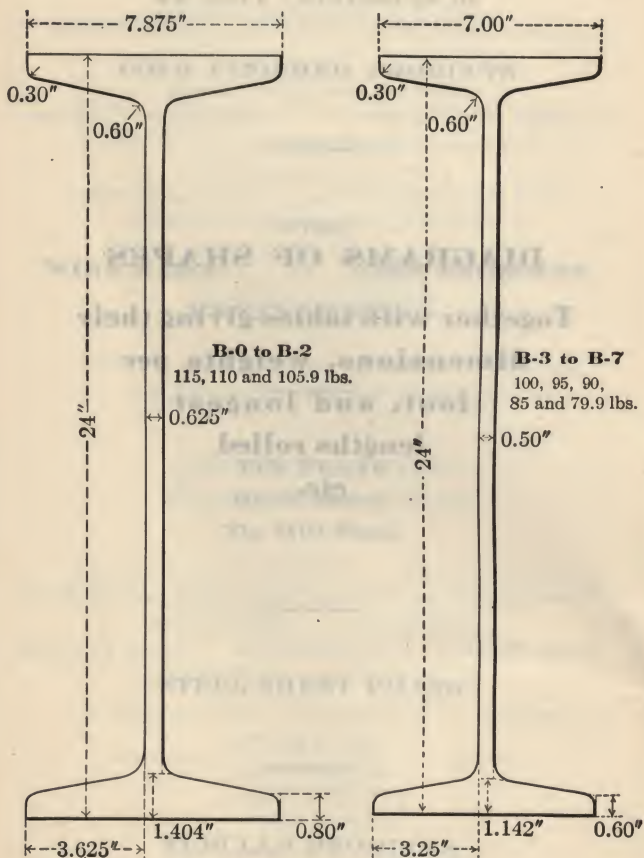
**STEEL SHEET PILING**

**TUBULAR PRODUCTS**

## DIAGRAMS OF SHAPES


Together with tables giving their  
dimensions, weights per  
foot, and longest  
lengths rolled  
etc.

Beams



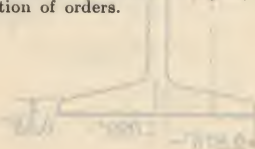
# JONES & LAUGHLIN STEEL COMPANY

## Beams

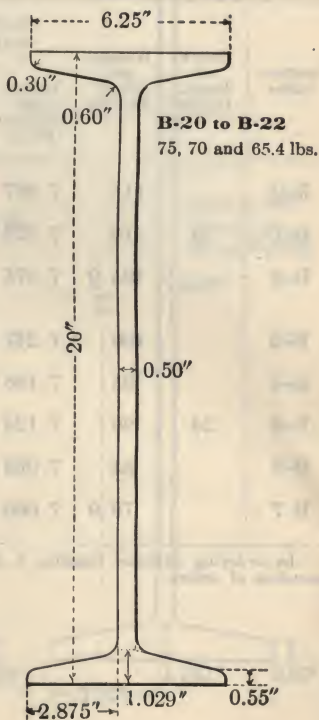
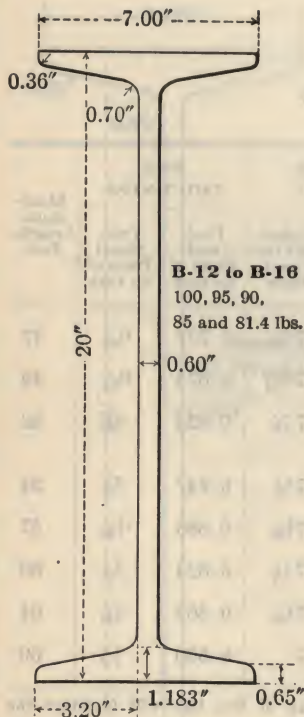


Section Index	Depth of Beam, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
B-0	24	115	7.987	$7\frac{53}{64}$	0.737	$\frac{47}{64}$	47
B-1		110	7.925	$7\frac{59}{64}$	0.675	$\frac{43}{64}$	49
B-2		105.9	7.875	$7\frac{7}{8}$	0.625	$\frac{5}{8}$	52
B-3	24	100	7.247	$7\frac{1}{4}$	0.747	$\frac{3}{4}$	54
B-4		95	7.186	$7\frac{3}{16}$	0.686	$\frac{11}{16}$	57
B-5		90	7.124	$7\frac{1}{8}$	0.624	$\frac{5}{8}$	60
B-6		85	7.063	$7\frac{1}{16}$	0.563	$\frac{9}{16}$	64
B-7		79.9	7.000	7	0.500	$\frac{1}{2}$	69

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.



# Beams





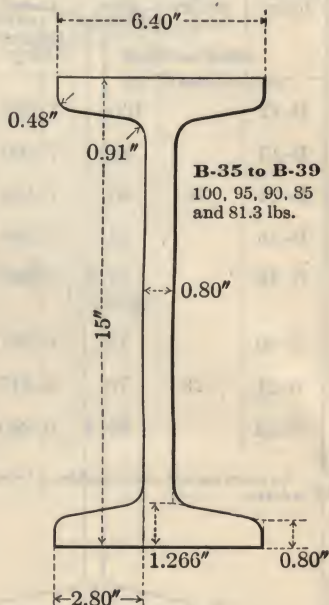
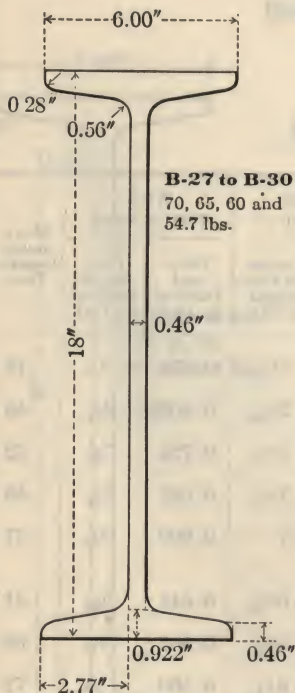
# JONES & LAUGHLIN STEEL COMPANY

## Beams

Section Index	Depth of Beam, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
B-12	20	100	7.273	$7\frac{17}{64}$	0.873	$\frac{7}{8}$	46
B-13		95	7.200	$7\frac{13}{64}$	0.800	$\frac{51}{64}$	49
B-14		90	7.126	$7\frac{1}{8}$	0.726	$\frac{23}{32}$	52
B-15		85	7.053	$7\frac{3}{64}$	0.653	$\frac{21}{32}$	55
B-16		81.4	7.000	7	0.600	$\frac{19}{32}$	57
B-20	20	75	6.391	$6\frac{25}{64}$	0.641	$\frac{41}{64}$	61
B-21		70	6.317	$6\frac{5}{16}$	0.567	$\frac{9}{16}$	66
B-22		65.4	6.250	$6\frac{1}{4}$	0.500	$\frac{1}{2}$	72

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# Beams



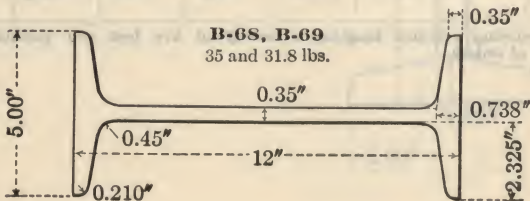
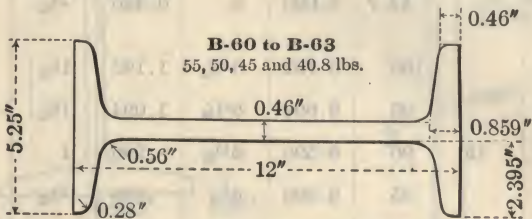
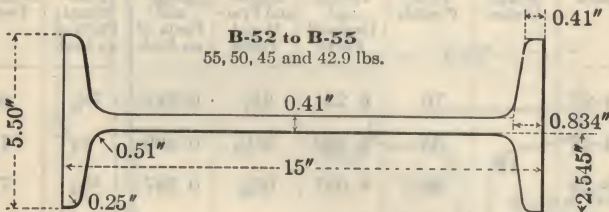
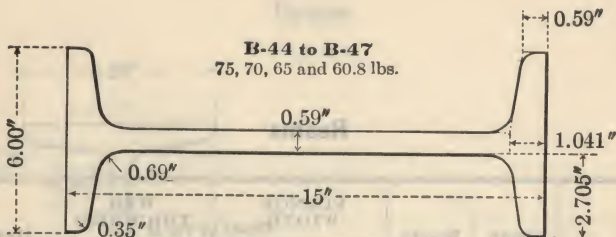


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Section Index	Depth of Beam, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
B-27	18	70	6.251	6¼	0.711	23/32	66
B-28		65	6.169	6 11/64	0.629	5/8	71
B-29		60	6.087	6 3/32	0.547	35/64	77
B-30		54.7	6.000	6	0.460	29/64	85
B-35		100	6.792	6 51/64	1.192	13/16	40
B 36	15	95	6.694	6 11/16	1.094	13/32	42
B-37		90	6.596	6 19/32	.996	1	45
B-38		85	6.498	6 1/2	.898	29/32	48
B-39		81.3	6.400	6 13/32	.800	51/64	51

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# Beams

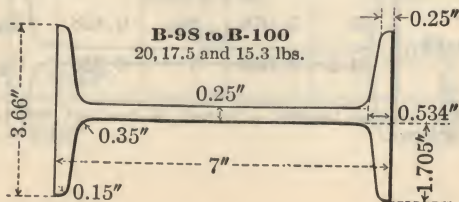
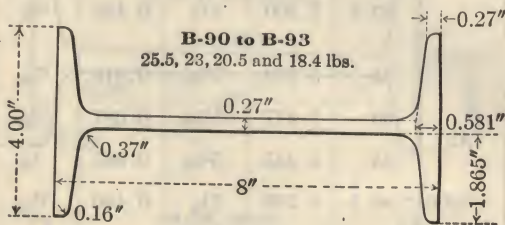
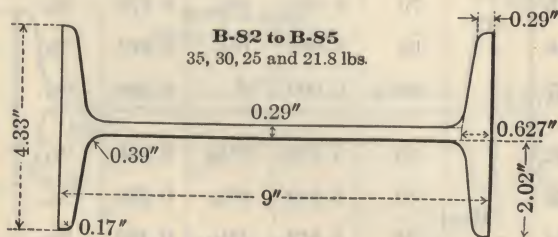
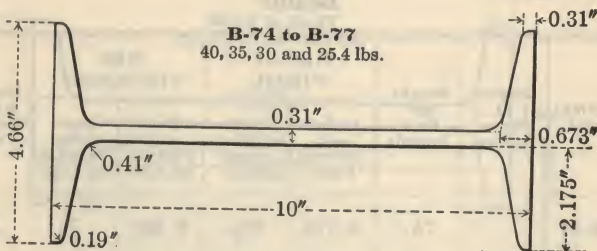


# Beams

Section Index	Depth of Beam, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
B-44	15	75	6.278	6 $\frac{9}{32}$	0.868	$\frac{7}{8}$	55
B-45		70	6.180	6 $\frac{3}{16}$	0.770	$\frac{49}{64}$	59
B-46		65	6.082	6 $\frac{5}{64}$	0.672	$\frac{43}{64}$	63
B-47		60.8	6.000	6	0.590	$\frac{19}{32}$	69
B-52	15	55	5.738	5 $\frac{47}{64}$	0.648	$\frac{41}{64}$	76
B-53		50	5.640	5 $\frac{41}{64}$	0.550	$\frac{35}{64}$	84
B-54		45	5.542	5 $\frac{35}{64}$	0.452	$\frac{29}{64}$	93
B-55		42.9	5.500	5 $\frac{1}{2}$	0.410	$\frac{13}{32}$	95
B-60	12	55	5.600	5 $\frac{19}{32}$	0.810	$\frac{13}{16}$	54
B-61		50	5.477	5 $\frac{31}{64}$	0.687	$\frac{11}{16}$	60
B-62		45	5.355	5 $\frac{23}{64}$	0.565	$\frac{9}{16}$	64
B-63		40.8	5.250	5 $\frac{1}{4}$	0.460	$\frac{29}{64}$	73
B-68	12	35	5.078	5 $\frac{5}{64}$	0.428	$\frac{27}{64}$	84
B-69		31.8	5.000	5	0.350	$\frac{11}{32}$	94

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

# Beams





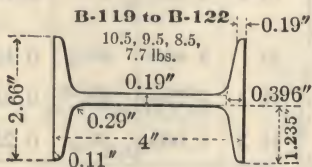
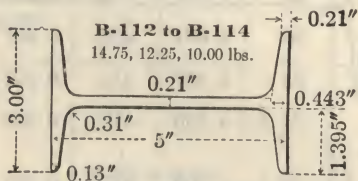
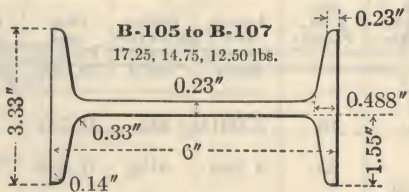
# Beams

Section Index	Depth of Beam, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
B- 74	10	40	5.091	5 $\frac{3}{32}$	0.741	47 $\frac{1}{64}$	80
B- 75		35	4.944	4 $\frac{15}{16}$	0.594	19 $\frac{1}{32}$	90
B- 76		30	4.797	4 $\frac{51}{64}$	0.447	29 $\frac{1}{64}$	100
B- 77		25.4	4.660	4 $\frac{21}{32}$	0.310	5 $\frac{1}{16}$	100
B- 82	9	35	4.764	4 $\frac{49}{64}$	0.724	23 $\frac{1}{32}$	90
B- 83		30	4.601	4 $\frac{19}{32}$	0.561	9 $\frac{1}{16}$	100
B- 84		25	4.437	4 $\frac{7}{16}$	0.397	25 $\frac{1}{64}$	100
B- 85		21.8	4.330	4 $\frac{21}{64}$	0.290	19 $\frac{1}{64}$	100
B- 90	8	25.5	4.262	4 $\frac{17}{64}$	0.532	17 $\frac{1}{32}$	90
B- 91		23	4.171	4 $\frac{11}{64}$	0.441	7 $\frac{1}{16}$	100
B- 92		20.5	4.079	4 $\frac{5}{64}$	0.349	11 $\frac{1}{32}$	100
B- 93		18.4	4.000	4	0.270	17 $\frac{1}{64}$	100
B- 98	7	20	3.860	3 $\frac{55}{64}$	0.450	29 $\frac{1}{64}$	90
B- 99		17.5	3.755	3 $\frac{3}{4}$	0.345	11 $\frac{1}{32}$	100
B-100		15.3	3.660	3 $\frac{21}{32}$	0.250	1 $\frac{1}{4}$	100

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

NOTE.—Lengths over 75 feet are made only by special arrangement.

# Beams



# Beams

Section Index	Depth of Beam, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
B-105	6	17.25	3.565	$3\frac{9}{16}$	0.465	$\frac{15}{32}$	90
B-106		14.75	3.443	$3\frac{7}{16}$	0.343	$\frac{11}{32}$	100
B-107		12.50	3.330	$3\frac{21}{64}$	0.230	$\frac{15}{64}$	100
B-112	5	14.75	3.284	$3\frac{9}{32}$	0.494	$\frac{1}{2}$	90
B-113		12.25	3.137	$3\frac{9}{64}$	0.347	$\frac{11}{32}$	100
B-114		10.00	3.000	3	0.210	$\frac{13}{64}$	100
B-119	4	10.5	2.870	$2\frac{7}{8}$	0.400	$\frac{13}{32}$	50
B-120		9.5	2.796	$2\frac{51}{64}$	0.326	$\frac{21}{64}$	55
B-121		8.5	2.723	$2\frac{23}{32}$	0.253	$\frac{1}{4}$	65
B-122		7.7	2.660	$2\frac{21}{32}$	0.190	$\frac{3}{16}$	65

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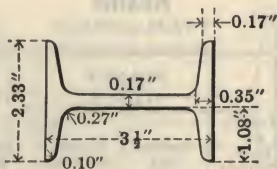
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# Beams

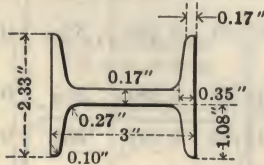
## \*B-125

5.8 lbs.



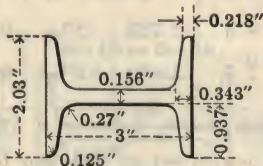
## B-127 to B-129

7.5, 6.5 and 5.7 lbs.



## \*B-134

5.2 lbs.



\*NOTE.—Made only by special arrangement.

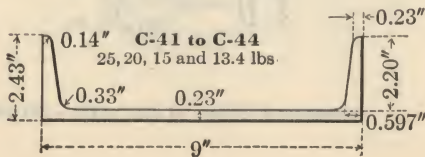
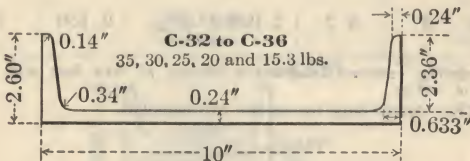
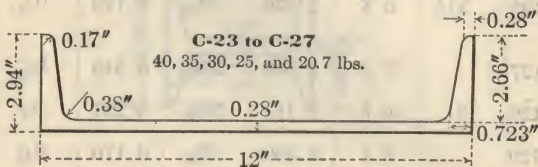
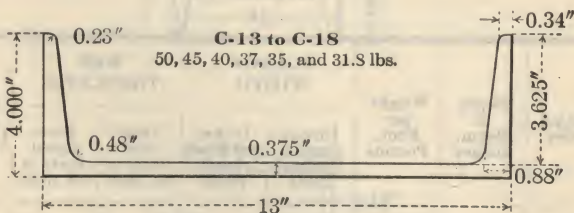
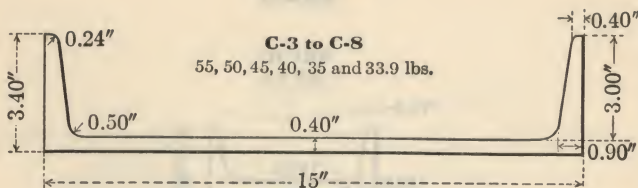
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			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
*B-125	3½	5.8	2.330	22 <sup>1</sup> / <sub>64</sub>	0.170	11 <sup>1</sup> / <sub>64</sub>	42
B-127		7.5	2.509	23 <sup>3</sup> / <sub>64</sub>	0.349	11 <sup>1</sup> / <sub>32</sub>	33
B-128	3	6.5	2.411	21 <sup>3</sup> / <sub>32</sub>	0.251	¼	38
B-129		5.7	2.330	22 <sup>1</sup> / <sub>64</sub>	0.170	11 <sup>1</sup> / <sub>64</sub>	45
*B-134	3	5.2	2.030	21 <sup>1</sup> / <sub>32</sub>	0.156	5 <sup>1</sup> / <sub>32</sub>	47

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

\*NOTE.—Made only by special arrangement.

# Channels



# JONES & LAUGHLIN STEEL COMPANY

## Channels

Section Index	Depth of Channel, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
C-3	15	55	3.814	$3\frac{13}{16}$	0.814	$\frac{13}{16}$	75
C-4		50	3.716	$3\frac{23}{32}$	0.716	$\frac{23}{32}$	84
C-5		45	3.618	$3\frac{5}{8}$	0.618	$\frac{5}{8}$	95
C-6		40	3.520	$3\frac{33}{64}$	0.520	$\frac{33}{64}$	95
C-7		35	3.422	$3\frac{27}{64}$	0.422	$\frac{27}{64}$	95
C-8		33.9	3.400	$3\frac{13}{32}$	0.400	$\frac{13}{32}$	95
C-13	13	50	4.412	$4\frac{13}{32}$	0.787	$\frac{25}{32}$	64
C-14		45	4.298	$4\frac{19}{64}$	0.673	$\frac{43}{64}$	72
C-15		40	4.185	$4\frac{3}{16}$	0.560	$\frac{9}{16}$	80
C-16		37	4.117	$4\frac{7}{64}$	0.492	$\frac{31}{64}$	86
C-17		35	4.072	$4\frac{5}{64}$	0.447	$\frac{29}{64}$	93
C-18		31.8	4.000	4	0.375	$\frac{3}{8}$	95
C-23	12	40	3.415	$3\frac{27}{64}$	0.755	$\frac{3}{4}$	80
C-24		35	3.292	$3\frac{19}{64}$	0.632	$\frac{5}{8}$	89
C-25		30	3.170	$3\frac{11}{64}$	0.510	$\frac{33}{64}$	95
C-26		25	3.047	$3\frac{3}{64}$	0.387	$\frac{25}{64}$	95
C-27		20.7	2.940	$2\frac{13}{16}$	0.280	$\frac{9}{32}$	95
C-32	10	35	3.180	$3\frac{3}{16}$	0.820	$\frac{13}{16}$	75
C-33		30	3.033	$3\frac{1}{32}$	0.673	$\frac{43}{64}$	85
C-34		25	2.886	$2\frac{57}{64}$	0.526	$\frac{17}{32}$	100
C-35		20	2.739	$2\frac{47}{64}$	0.379	$\frac{3}{8}$	100
C-36		15.3	2.600	$2\frac{19}{32}$	0.240	$\frac{15}{64}$	100
C-41	9	25	2.812	$2\frac{13}{16}$	0.612	$\frac{39}{64}$	75
C-42		20	2.648	$2\frac{41}{64}$	0.448	$\frac{29}{64}$	85
C-43		15	2.485	$2\frac{31}{64}$	0.285	$\frac{9}{32}$	100
C-44		13.4	2.430	$2\frac{7}{16}$	0.230	$\frac{15}{64}$	100

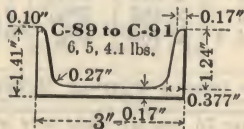
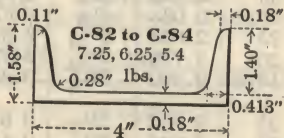
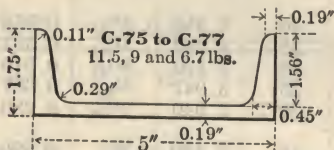
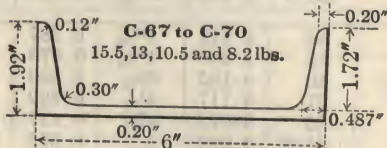
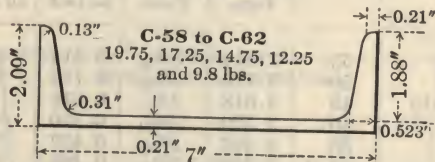
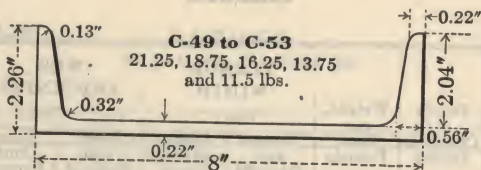
In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

NOTE.—Lengths over 75 feet are made only by special arrangement.

Sections C-13 to C-18, inc., Car Building Channels.



# Channels



# Channels

Section Index	Depth of Channel, Inches	Weight, per Foot, Pounds	FLANGE WIDTH		WEB THICKNESS		Maximum Length, Feet
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch	
C-49	8	21.25	2.619	2 $\frac{5}{8}$	0.579	3 $\frac{7}{64}$	90
C-50		18.75	2.527	2 $\frac{17}{32}$	0.487	3 $\frac{1}{64}$	100
C-51		16.25	2.435	2 $\frac{7}{16}$	0.395	2 $\frac{5}{64}$	100
C-52		13.75	2.343	2 $\frac{11}{32}$	0.303	1 $\frac{9}{64}$	100
C-53		11.5	2.260	2 $\frac{17}{64}$	0.220	7 $\frac{1}{32}$	100
C-58	7	19.75	2.509	2 $\frac{33}{64}$	0.629	5 $\frac{1}{8}$	100
C-59		17.25	2.404	2 $\frac{13}{32}$	0.524	1 $\frac{7}{32}$	100
C-60		14.75	2.299	2 $\frac{19}{64}$	0.419	2 $\frac{7}{64}$	100
C-61		12.25	2.194	2 $\frac{3}{16}$	0.314	5 $\frac{1}{16}$	100
C-62		9.8	2.090	2 $\frac{3}{32}$	0.210	1 $\frac{3}{64}$	100
C-67	6	15.5	2.279	2 $\frac{9}{32}$	0.559	9 $\frac{1}{16}$	90
C-68		13	2.157	2 $\frac{5}{32}$	0.437	7 $\frac{1}{16}$	100
C-69		10.5	2.034	2 $\frac{1}{32}$	0.314	5 $\frac{1}{16}$	100
C-70		8.2	1.920	1 $\frac{59}{64}$	0.200	1 $\frac{3}{64}$	100
C-75	5	11.5	2.032	2 $\frac{1}{32}$	0.472	1 $\frac{5}{32}$	65
C-76		9	1.885	1 $\frac{57}{64}$	0.325	2 $\frac{1}{64}$	65
C-77		6.7	1.750	1 $\frac{3}{4}$	0.190	3 $\frac{1}{16}$	65
C-82	4	7.25	1.720	1 $\frac{23}{32}$	0.320	5 $\frac{1}{16}$	65
C-83		6.25	1.647	1 $\frac{41}{64}$	0.247	1 $\frac{1}{4}$	65
C-84		5.4	1.580	1 $\frac{37}{64}$	0.180	3 $\frac{1}{16}$	65
C-89	3	6	1.596	1 $\frac{19}{32}$	0.356	2 $\frac{3}{64}$	42
C-90		5	1.498	1 $\frac{1}{2}$	0.258	1 $\frac{1}{4}$	50
C-91		4.1	1.410	1 $\frac{13}{32}$	0.170	1 $\frac{1}{64}$	50

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

NOTE.—Lengths over 75 feet are made only by special arrangement.

Channels

Weight	Depth	Flange	Web	Area	Moment	Radius
10	3.0	3.0	0.25	0.12	0.001	0.001
12	3.5	3.5	0.30	0.15	0.001	0.001
15	4.0	4.0	0.35	0.18	0.001	0.001
20	5.0	5.0	0.45	0.25	0.001	0.001
25	6.0	6.0	0.55	0.35	0.001	0.001
30	7.0	7.0	0.65	0.45	0.001	0.001
35	8.0	8.0	0.75	0.55	0.001	0.001
40	9.0	9.0	0.85	0.65	0.001	0.001
45	10.0	10.0	0.95	0.75	0.001	0.001
50	11.0	11.0	1.05	0.85	0.001	0.001
55	12.0	12.0	1.15	0.95	0.001	0.001
60	13.0	13.0	1.25	1.05	0.001	0.001
65	14.0	14.0	1.35	1.15	0.001	0.001
70	15.0	15.0	1.45	1.25	0.001	0.001
75	16.0	16.0	1.55	1.35	0.001	0.001
80	17.0	17.0	1.65	1.45	0.001	0.001
85	18.0	18.0	1.75	1.55	0.001	0.001
90	19.0	19.0	1.85	1.65	0.001	0.001
95	20.0	20.0	1.95	1.75	0.001	0.001
100	21.0	21.0	2.05	1.85	0.001	0.001
105	22.0	22.0	2.15	1.95	0.001	0.001
110	23.0	23.0	2.25	2.05	0.001	0.001
115	24.0	24.0	2.35	2.15	0.001	0.001
120	25.0	25.0	2.45	2.25	0.001	0.001
125	26.0	26.0	2.55	2.35	0.001	0.001
130	27.0	27.0	2.65	2.45	0.001	0.001
135	28.0	28.0	2.75	2.55	0.001	0.001
140	29.0	29.0	2.85	2.65	0.001	0.001
145	30.0	30.0	2.95	2.75	0.001	0.001
150	31.0	31.0	3.05	2.85	0.001	0.001
155	32.0	32.0	3.15	2.95	0.001	0.001
160	33.0	33.0	3.25	3.05	0.001	0.001
165	34.0	34.0	3.35	3.15	0.001	0.001
170	35.0	35.0	3.45	3.25	0.001	0.001
175	36.0	36.0	3.55	3.35	0.001	0.001
180	37.0	37.0	3.65	3.45	0.001	0.001
185	38.0	38.0	3.75	3.55	0.001	0.001
190	39.0	39.0	3.85	3.65	0.001	0.001
195	40.0	40.0	3.95	3.75	0.001	0.001
200	41.0	41.0	4.05	3.85	0.001	0.001
205	42.0	42.0	4.15	3.95	0.001	0.001
210	43.0	43.0	4.25	4.05	0.001	0.001
215	44.0	44.0	4.35	4.15	0.001	0.001
220	45.0	45.0	4.45	4.25	0.001	0.001
225	46.0	46.0	4.55	4.35	0.001	0.001
230	47.0	47.0	4.65	4.45	0.001	0.001
235	48.0	48.0	4.75	4.55	0.001	0.001
240	49.0	49.0	4.85	4.65	0.001	0.001
245	50.0	50.0	4.95	4.75	0.001	0.001
250	51.0	51.0	5.05	4.85	0.001	0.001
255	52.0	52.0	5.15	4.95	0.001	0.001
260	53.0	53.0	5.25	5.05	0.001	0.001
265	54.0	54.0	5.35	5.15	0.001	0.001
270	55.0	55.0	5.45	5.25	0.001	0.001
275	56.0	56.0	5.55	5.35	0.001	0.001
280	57.0	57.0	5.65	5.45	0.001	0.001
285	58.0	58.0	5.75	5.55	0.001	0.001
290	59.0	59.0	5.85	5.65	0.001	0.001
295	60.0	60.0	5.95	5.75	0.001	0.001
300	61.0	61.0	6.05	5.85	0.001	0.001
305	62.0	62.0	6.15	5.95	0.001	0.001
310	63.0	63.0	6.25	6.05	0.001	0.001
315	64.0	64.0	6.35	6.15	0.001	0.001
320	65.0	65.0	6.45	6.25	0.001	0.001
325	66.0	66.0	6.55	6.35	0.001	0.001
330	67.0	67.0	6.65	6.45	0.001	0.001
335	68.0	68.0	6.75	6.55	0.001	0.001
340	69.0	69.0	6.85	6.65	0.001	0.001
345	70.0	70.0	6.95	6.75	0.001	0.001
350	71.0	71.0	7.05	6.85	0.001	0.001
355	72.0	72.0	7.15	6.95	0.001	0.001
360	73.0	73.0	7.25	7.05	0.001	0.001
365	74.0	74.0	7.35	7.15	0.001	0.001
370	75.0	75.0	7.45	7.25	0.001	0.001
375	76.0	76.0	7.55	7.35	0.001	0.001
380	77.0	77.0	7.65	7.45	0.001	0.001
385	78.0	78.0	7.75	7.55	0.001	0.001
390	79.0	79.0	7.85	7.65	0.001	0.001
395	80.0	80.0	7.95	7.75	0.001	0.001
400	81.0	81.0	8.05	7.85	0.001	0.001
405	82.0	82.0	8.15	7.95	0.001	0.001
410	83.0	83.0	8.25	8.05	0.001	0.001
415	84.0	84.0	8.35	8.15	0.001	0.001
420	85.0	85.0	8.45	8.25	0.001	0.001
425	86.0	86.0	8.55	8.35	0.001	0.001
430	87.0	87.0	8.65	8.45	0.001	0.001
435	88.0	88.0	8.75	8.55	0.001	0.001
440	89.0	89.0	8.85	8.65	0.001	0.001
445	90.0	90.0	8.95	8.75	0.001	0.001
450	91.0	91.0	9.05	8.85	0.001	0.001
455	92.0	92.0	9.15	8.95	0.001	0.001
460	93.0	93.0	9.25	9.05	0.001	0.001
465	94.0	94.0	9.35	9.15	0.001	0.001
470	95.0	95.0	9.45	9.25	0.001	0.001
475	96.0	96.0	9.55	9.35	0.001	0.001
480	97.0	97.0	9.65	9.45	0.001	0.001
485	98.0	98.0	9.75	9.55	0.001	0.001
490	99.0	99.0	9.85	9.65	0.001	0.001
495	100.0	100.0	9.95	9.75	0.001	0.001

# SHIP BUILDING CHANNELS

## American Standards as Adopted by Steel Makers November 19, 1918

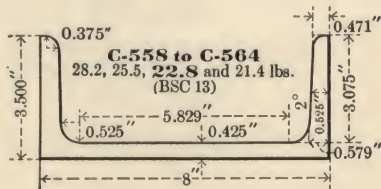
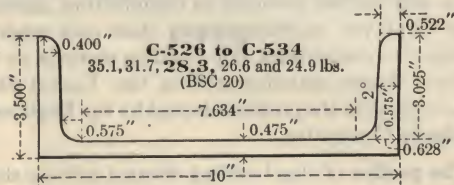
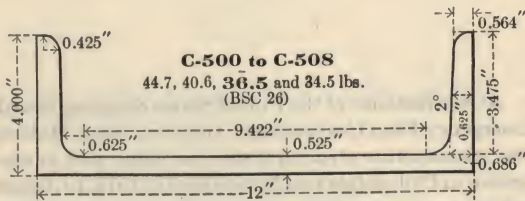


At the instance of the United States Shipping Board, Emergency Fleet Corporation, American Steel Makers, who manufacture structural steel for ships, met in conference in Philadelphia on November 19, 1918, to discuss and take action on the report of the proposed standardization of rolled steel shapes for Emergency Fleet Corporation hulls. At that conference the steel manufacturers, in the interest of standard practice, the widest possible use of sections rolled in the United States and further economy in manufacture, agreed to make whatever modifications in their rolls might be necessary to standardize ship building sections, so that all such shapes manufactured in the United States shall conform to the profiles adopted by the Engineering Standards Committee.

The profiles of ship building channel sections shown herein are drawn in accordance with that action. Orders for such ship building channels should conform to the weights and dimensions indicated on the following pages.

## Ship Building Channels

### Standard Sections



# Ship Building Channels Standard Sections

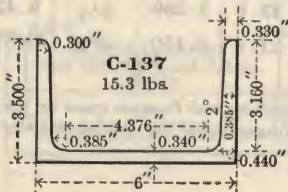
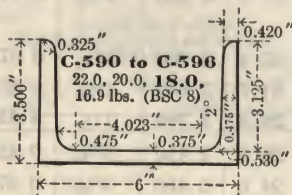
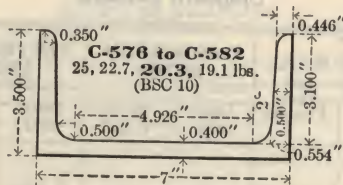
Section Index	Depth of Channel, Inches	Weight, per Foot, Pounds	FLANGE WIDTH, INCHES		WEB THICKNESS, INCHES		Maximum Length, Feet
			Decimal	Fractional	Decimal	Fractional	
C500	12	44.7	4.200	$4\frac{13}{64}$	0.725	$\frac{23}{32}$	75
C502	12	40.6	4.100	$4\frac{3}{32}$	0.625	$\frac{5}{8}$	75
<b>C506</b>	12	<b>36.5</b>	<b>4.000</b>	4	<b>0.525</b>	$\frac{17}{32}$	75
C508	12	34.5	3.950	$3\frac{61}{64}$	0.475	$\frac{15}{32}$	75
C526	10	35.1	3.700	$3\frac{45}{64}$	0.675	$\frac{43}{64}$	75
C528	10	31.7	3.600	$3\frac{19}{32}$	0.575	$\frac{37}{64}$	75
<b>C530</b>	10	<b>28.3</b>	<b>3.500</b>	$3\frac{1}{2}$	<b>0.475</b>	$\frac{15}{32}$	75
C532	10	26.6	3.450	$3\frac{29}{64}$	0.425	$\frac{27}{64}$	75
C534	10	24.9	3.400	$3\frac{13}{32}$	0.375	$\frac{3}{8}$	75
C558	8	28.2	3.700	$3\frac{45}{64}$	0.625	$\frac{5}{8}$	75
C560	8	25.5	3.600	$3\frac{19}{32}$	0.525	$\frac{17}{32}$	75
<b>C562</b>	8	<b>22.8</b>	<b>3.500</b>	$3\frac{1}{2}$	<b>0.425</b>	$\frac{27}{64}$	75
C564	8	21.4	3.450	$3\frac{29}{64}$	0.375	$\frac{3}{8}$	75

Greater lengths may be had in some cases by special arrangement.

Dimensions and properties of the British Standard Sections are indicated in **bold type**.

## Ship Building Channels

## Standard Sections





### Ship Building Channels

#### Standard Sections

Section Index	Depth of Channel, Inches	Weight, per Foot, Pounds	FLANGE WIDTH, INCHES		WEB THICKNESS, INCHES		Maximum Length, Feet
			Decimal	Fractional	Decimal	Fractional	
C576	7	25.0	3.700	$3\frac{45}{64}$	0.600	$\frac{19}{32}$	75
C578	7	22.7	3.600	$3\frac{19}{32}$	0.500	$\frac{1}{2}$	75
<b>C580</b>	7	<b>20.3</b>	<b>3.500</b>	$3\frac{1}{2}$	<b>0.400</b>	$\frac{13}{32}$	75
C582	7	19.1	3.450	$3\frac{29}{64}$	0.350	$\frac{11}{32}$	75
C590	6	22.0	3.700	$3\frac{45}{64}$	0.575	$\frac{37}{64}$	75
C592	6	20.0	3.600	$3\frac{19}{32}$	0.475	$\frac{15}{32}$	75
<b>C594</b>	6	<b>18.0</b>	<b>3.500</b>	$3\frac{1}{2}$	<b>0.375</b>	$\frac{3}{8}$	75
C596	6	16.9	3.450	$3\frac{29}{64}$	0.325	$\frac{21}{64}$	75
C137	6	15.3	3.500	$3\frac{1}{2}$	0.340	$\frac{11}{32}$	75

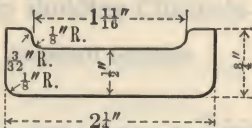
Greater lengths may be had in some cases by special arrangement.

Dimensions and properties of the British Standard Sections are indicated in **bold type**.



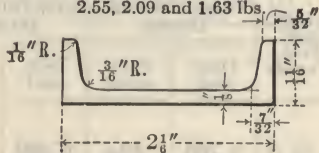
# Special Channels

**C-159**  
4.3 lbs.



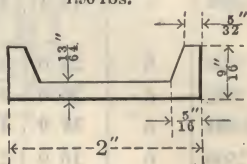
**C-164 to C-166**

2.55, 2.09 and 1.63 lbs.



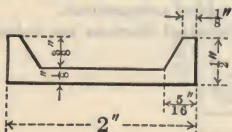
**C-175**

1.96 lbs.



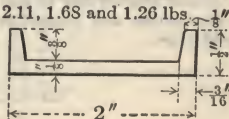
**C-176 to C-178**

2.26, 1.84 and 1.41 lbs.



**C-183 to C-185**

2.11, 1.68 and 1.26 lbs.



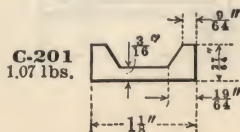
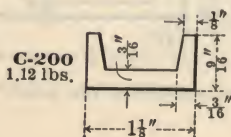
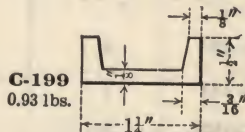
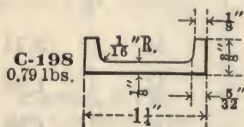
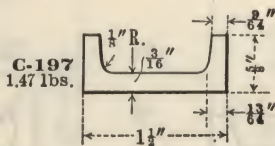
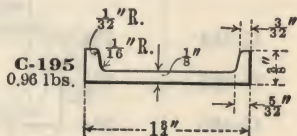
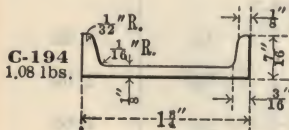
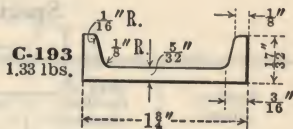
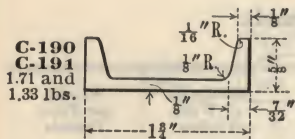
\*Rolled only in Bessemer steel.

## Special Channels

Section Index	Size of Section, Inches	Width of Flange, Inches	Thickness of Web, Inches	Weight, per Foot, Pounds
C-159	2 $\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	4.3
C-164	2 $\frac{1}{8}$	$\frac{13}{16}$	$\frac{1}{4}$	2.55
C-165	2 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{16}$	2.09
C-166	2 $\frac{1}{8}$	$\frac{11}{16}$	$\frac{1}{8}$	1.63
*C-171	2	1	$\frac{3}{16}$	2.60
C-175	2	$\frac{9}{16}$	$\frac{13}{64}$	1.96
C-176	2	$\frac{5}{8}$	$\frac{1}{4}$	2.26
C-177	2	$\frac{9}{16}$	$\frac{3}{16}$	1.84
C-178	2	$\frac{1}{2}$	$\frac{1}{8}$	1.41
C-183	2	$\frac{5}{8}$	$\frac{1}{4}$	2.11
C-184	2	$\frac{9}{16}$	$\frac{3}{16}$	1.68
C-185	2	$\frac{1}{2}$	$\frac{1}{8}$	1.26

\*Rolled only in Bessemer steel.

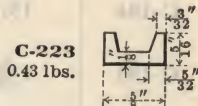
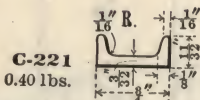
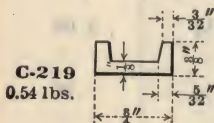
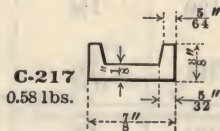
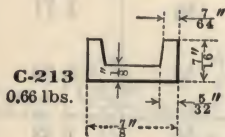
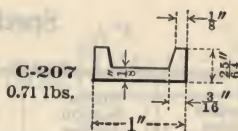
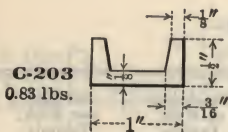
# Special Channels



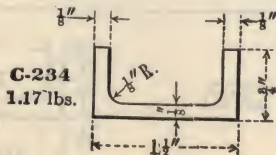
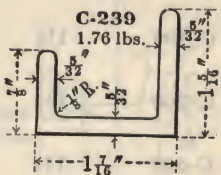
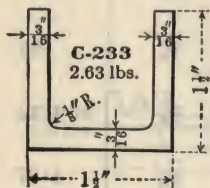
Special Channels

Section Index	Size of Section, Inches	Width of Flange, Inches	Thickness of Web, Inches	Weight, per Foot, Pounds
C-190	1¾	11/16	3/16	1.71
C-191	1¾	5/8	1/8	1.33
C-193	1¾	17/32	5/32	1.33
C-194	1¾	7/16	1/8	1.08
C-195	1¾	3/8	1/8	.96
C-197	1½	5/8	3/16	1.47
C-198	1¼	3/8	1/8	.79
C-199	1¼	½	1/8	.93
C-200	1⅝	9/16	3/16	1.12
C-201	1⅝	27/64	3/16	1.07

# Special Channels



## Box Channels





### Special Channels

Section Index	Size of Section, Inches	Width of Flange, Inches	Thickness of Web, Inches	Weight, per Foot, Pounds
C-203	1	$\frac{1}{2}$	$\frac{1}{8}$	.83
C-207	1	$\frac{25}{64}$	$\frac{1}{8}$	.71
C-213	$\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{8}$	.66
C-217	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	.58
C-219	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{8}$	.54
C-221	$\frac{3}{4}$	$\frac{11}{32}$	$\frac{3}{32}$	.40
C-223	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	.43

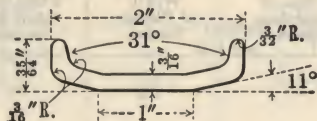
### Box Channels

Section Index	Size of Section, Inches	Width of Flange, Inches	Thickness of Web, Inches	Weight, per Foot, Pounds
C-233	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{16}$	2.63
C-234	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{8}$	1.17
C-239	$1\frac{7}{16}$	$1\frac{5}{16}$ & $\frac{7}{8}$	$\frac{5}{32}$	1.76

# Bevel Back Channel

**C-273**

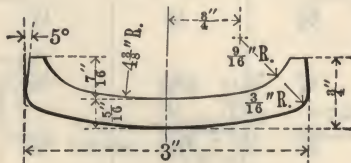
1.65 lbs.



# Round Back Channels

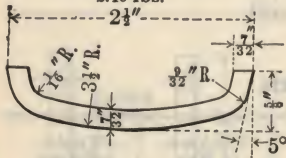
**C-281**

3.84 lbs.



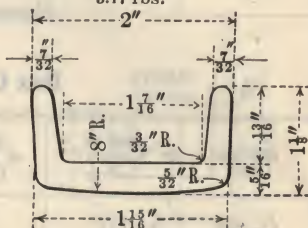
**C-283**

2.10 lbs.



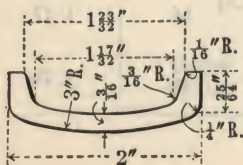
**C-288**

3.17 lbs.



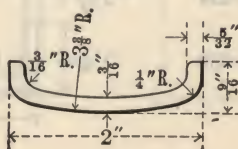
**C-289**

1.57 lbs.



**C-290**

1.55 lbs.



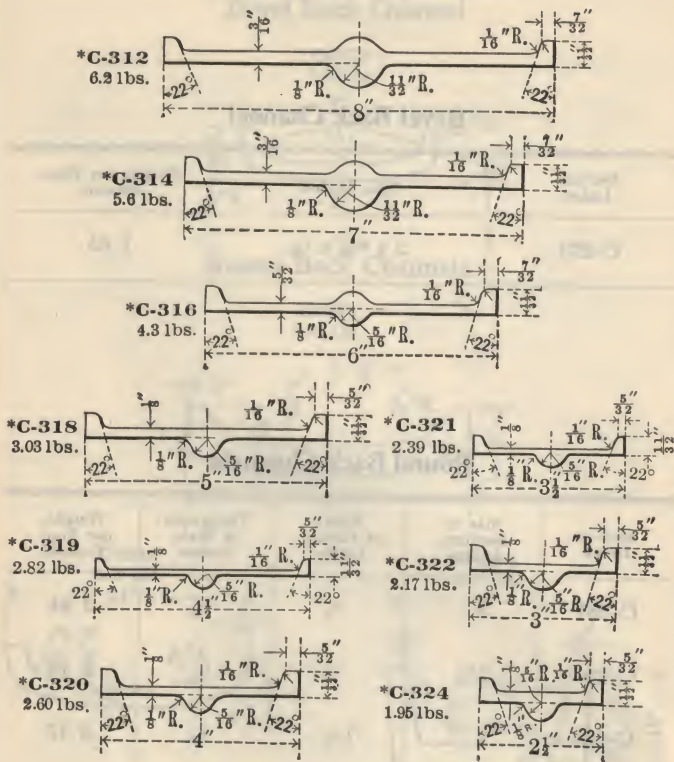
### Bevel Back Channel

Section Index	Size, Inches	Weight per Foot, Pounds
C-273	2 x $3\frac{5}{64}$ x $\frac{3}{16}$	1.65

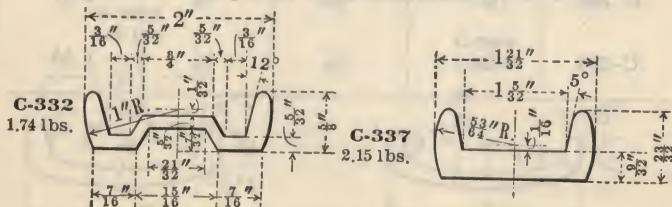
### Round Back Channels

Section Index	Size of Section, Inches	Width of Flange, Inches	Thickness of Web, Inches	Weight, per Foot, Pounds
C-281	3	$\frac{3}{4}$	$\frac{5}{16}$	3.84
C-283	$2\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{32}$	2.10
C-288	2	$1\frac{1}{8}$	$\frac{5}{16}$	3.17
C-289	2	$2\frac{5}{64}$	$\frac{3}{16}$	1.57
C-290	2	$\frac{9}{16}$	$\frac{3}{16}$	1.55

## Special Beaded Channels



## Special Tire Channels



\*These sections have been inserted for reference only.



### Special Beaded Channels

Section Index	Size of Section, Inches	Width of Flange, Inches	Thickness of Web, Inches	Weight, per Foot, Pounds
*C-312	8	$1\frac{11}{32}$	$\frac{3}{16}$	6.2
*C-314	7	$1\frac{11}{32}$	$\frac{3}{16}$	5.6
*C-316	6	$1\frac{11}{32}$	$\frac{5}{32}$	4.3
*C-318	5	$1\frac{11}{32}$	$\frac{1}{8}$	3.03
*C-319	$4\frac{1}{2}$	$1\frac{11}{32}$	$\frac{1}{8}$	2.82
*C-320	4	$1\frac{11}{32}$	$\frac{1}{8}$	2.60
*C-321	$3\frac{1}{2}$	$1\frac{11}{32}$	$\frac{1}{8}$	2.39
*C-322	3	$1\frac{11}{32}$	$\frac{1}{8}$	2.17
*C-324	$2\frac{1}{2}$	$1\frac{11}{32}$	$\frac{1}{8}$	1.95

### Special Tire Channels

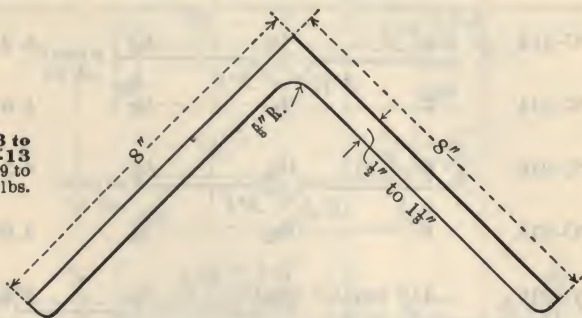
Section Index	Size, Inches	Weight per Foot, Pounds
C-332	2 x $\frac{5}{8}$	1.74
C-337	$1\frac{21}{32}$ x $2\frac{23}{32}$	2.15

\*These sections have been inserted for reference only.

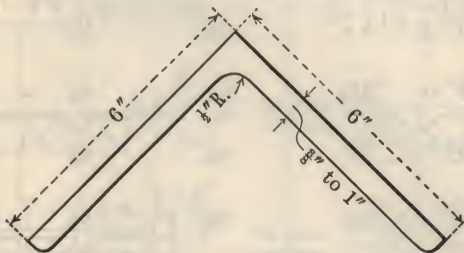


# Angles with Equal Legs

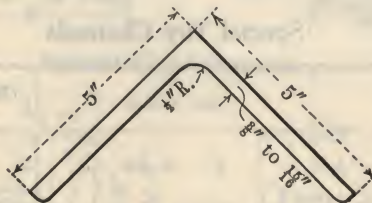
**A-3 to  
A-13**  
56.9 to  
26.4 lbs.



**A-17 to  
A-27**  
37.4 to  
14.9 lbs.



**A-33 to  
A-42**  
28.9 to  
12.3 lbs.



# Angles with Equal Legs

Sections appearing in bold-face type adopted as standard by the Association of American Steel Manufacturers, for bridge, car, ship and general building construction.

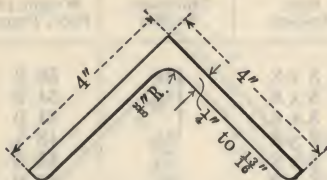
Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-3	8 x 8	1 <sup>1</sup> / <sub>8</sub>	56.9	78
A-4	8 x 8	1 <sup>1</sup> / <sub>16</sub>	54.0	83
A-5	8 x 8	1	51.0	87
A-6	8 x 8	1 <sup>5</sup> / <sub>16</sub>	48.1	95
A-7	8 x 8	7 <sup>7</sup> / <sub>8</sub>	45.0	95
A-8	8 x 8	1 <sup>13</sup> / <sub>16</sub>	42.0	95
A-9	8 x 8	3 <sup>3</sup> / <sub>4</sub>	38.9	95
A-10	8 x 8	1 <sup>11</sup> / <sub>16</sub>	35.8	95
A-11	8 x 8	5 <sup>5</sup> / <sub>8</sub>	32.7	95
A-12	8 x 8	9 <sup>9</sup> / <sub>16</sub>	29.6	95
A-13	8 x 8	1 <sup>1</sup> / <sub>2</sub>	26.4	95
A-17	6 x 6	1	37.4	100
A-18	6 x 6	1 <sup>15</sup> / <sub>16</sub>	35.3	100
A-19	6 x 6	7 <sup>7</sup> / <sub>8</sub>	33.1	100
A-20	6 x 6	1 <sup>13</sup> / <sub>16</sub>	31.0	100
A-21	6 x 6	3 <sup>3</sup> / <sub>4</sub>	28.7	100
A-22	6 x 6	1 <sup>11</sup> / <sub>16</sub>	26.5	100
A-23	6 x 6	5 <sup>5</sup> / <sub>8</sub>	24.2	100
A-24	6 x 6	9 <sup>9</sup> / <sub>16</sub>	21.9	100
A-25	6 x 6	1 <sup>1</sup> / <sub>2</sub>	19.6	100
A-26	6 x 6	7 <sup>7</sup> / <sub>16</sub>	17.2	100
A-27	6 x 6	3 <sup>3</sup> / <sub>8</sub>	14.9	100
A-33	5 x 5	1 <sup>15</sup> / <sub>16</sub>	28.9	100
A-34	5 x 5	7 <sup>7</sup> / <sub>8</sub>	27.2	100
A-35	5 x 5	1 <sup>13</sup> / <sub>16</sub>	25.4	100
A-36	5 x 5	3 <sup>3</sup> / <sub>4</sub>	23.6	100
A-37	5 x 5	1 <sup>11</sup> / <sub>16</sub>	21.8	100
A-38	5 x 5	5 <sup>5</sup> / <sub>8</sub>	20.0	100
A-39	5 x 5	9 <sup>9</sup> / <sub>16</sub>	18.1	100
A-40	5 x 5	1 <sup>1</sup> / <sub>2</sub>	16.2	100
A-41	5 x 5	7 <sup>7</sup> / <sub>16</sub>	14.3	100
A-42	5 x 5	3 <sup>3</sup> / <sub>8</sub>	12.3	100

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

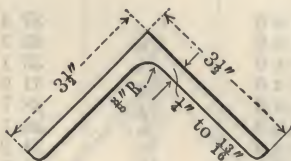
NOTE.—Lengths over 75 feet are made only by special arrangement.

# Angles with Equal Legs

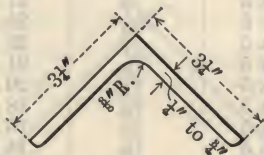
**A-47 to  
A-56**  
19.9 to  
6.6 lbs.



**A-61 to  
A-70**  
17.1 to  
5.8 lbs.



**A-80 to  
A-88**  
14.7 to  
5.4 lbs.



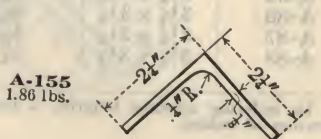
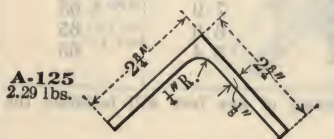
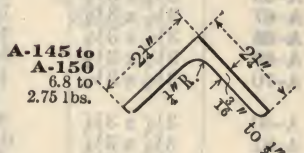
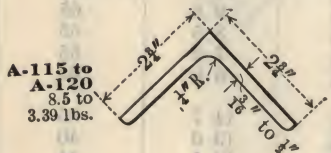
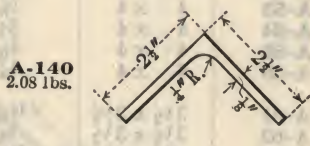
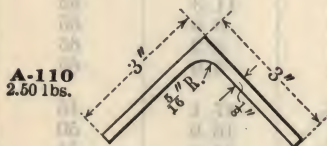
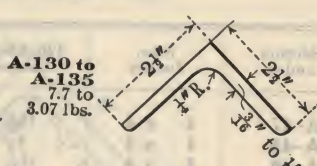
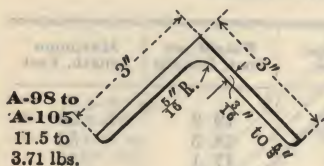
# Angles with Equal Legs

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-47	4 x 4	$\frac{13}{16}$	19.9	50
A-48	4 x 4	$\frac{3}{4}$	18.5	52
A-49	4 x 4	$\frac{11}{16}$	17.1	56
A-50	4 x 4	$\frac{5}{8}$	15.7	61
A-51	4 x 4	$\frac{9}{16}$	14.3	65
A-52	4 x 4	$\frac{1}{2}$	12.8	65
A-53	4 x 4	$\frac{7}{16}$	11.3	65
A-54	4 x 4	$\frac{3}{8}$	9.8	65
A-55	4 x 4	$\frac{5}{16}$	8.2	65
A-56	4 x 4	$\frac{1}{4}$	6.6	65
A-61	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{13}{16}$	17.1	46
A-62	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{3}{4}$	16.0	50
A-63	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{11}{16}$	14.8	54
A-64	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{5}{8}$	13.6	60
A-65	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{9}{16}$	12.4	65
A-66	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{1}{2}$	11.1	65
A-67	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{7}{16}$	9.8	65
A-68	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{3}{8}$	8.5	65
A-69	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{5}{16}$	7.2	65
A-70	$3\frac{1}{2}$ x $3\frac{1}{2}$	$\frac{1}{4}$	5.8	65
A-80	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{3}{4}$	14.7	35
A-81	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{11}{16}$	13.6	40
A-82	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{5}{8}$	12.5	44
A-83	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{9}{16}$	11.4	50
A-84	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{1}{2}$	10.2	55
A-85	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{7}{16}$	9.1	60
A-86	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{3}{8}$	7.9	65
A-87	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{5}{16}$	6.6	65
A-88	$3\frac{1}{4}$ x $3\frac{1}{4}$	$\frac{1}{4}$	5.4	65

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.



# Angles with Equal Legs





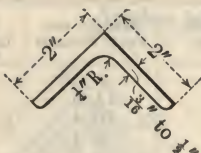
# Angles with Equal Legs

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A- 98	3 x 3	$\frac{5}{8}$	11.5	50
A- 99	3 x 3	$\frac{9}{16}$	10.4	55
A-100	3 x 3	$\frac{1}{2}$	9.4	60
A-101	3 x 3	$\frac{7}{16}$	8.3	65
A-102	3 x 3	$\frac{3}{8}$	7.2	65
A-103	3 x 3	$\frac{5}{16}$	6.1	65
A-104	3 x 3	$\frac{1}{4}$	4.9	65
A-105	3 x 3	$\frac{3}{16}$	3.71	45
A-110	3 x 3	$\frac{1}{8}$	2.50	40
A-115	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{1}{2}$	8.5	28
A-116	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{7}{16}$	7.6	32
A-117	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{3}{8}$	6.6	38
A-118	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{5}{16}$	5.6	44
A-119	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{1}{4}$	4.5	50
A-120	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{3}{16}$	3.39	50
A-125	$2\frac{3}{4}$ x $2\frac{3}{4}$	$\frac{1}{8}$	2.29	40
A-130	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{2}$	7.7	31
A-131	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{7}{16}$	6.8	35
A-132	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{3}{8}$	5.9	40
A-133	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{5}{16}$	5.0	50
A-134	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{4}$	4.1	50
A-135	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{3}{16}$	3.07	50
A-140	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{8}$	2.08	50
A-145	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{1}{2}$	6.8	35
A-146	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{7}{16}$	6.1	40
A-147	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{3}{8}$	5.3	45
A-148	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{5}{16}$	4.5	50
A-149	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{1}{4}$	3.62	50
A-150	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{3}{16}$	2.75	50
A-155	$2\frac{1}{4}$ x $2\frac{1}{4}$	$\frac{1}{8}$	1.86	50

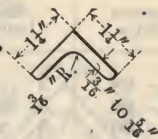
In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

# Angles with Equal Legs

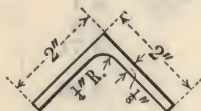
**A-160 to  
A-165**  
6.0 to  
2.44 lbs.



**A-207 to  
A-209**  
2.33 to  
1.48 lbs.



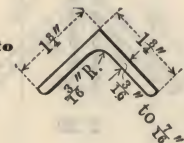
**A-170**  
1.65 lbs.



**A-214**  
1.01 lbs.



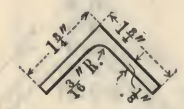
**A-175 to  
A-179**  
4.6 to  
2.12 lbs.



**A-224 to  
A-226**  
1.49 to  
0.80 lbs.



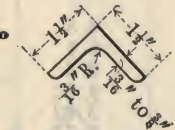
**A-184**  
1.44 lbs.



**A-228  
and  
A-229**  
1.00 and  
0.70 lbs.



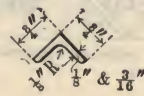
**A-189 to  
A-192**  
3.35 to  
1.80 lbs.



**A-197**  
1.23 lbs.



**A-231  
and  
A-232**  
0.84 and  
0.59 lbs.



# JONES & LAUGHLIN STEEL COMPANY

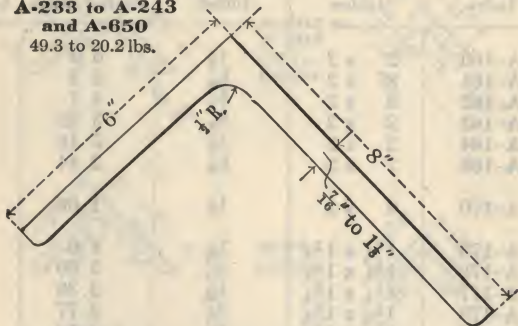
## Angles with Equal Legs

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-160	2 x 2	$\frac{1}{2}$	6.0	45
A-161	2 x 2	$\frac{7}{16}$	5.3	45
A-162	2 x 2	$\frac{3}{8}$	4.7	45
A-163	2 x 2	$\frac{5}{16}$	3.92	50
A-164	2 x 2	$\frac{1}{4}$	3.19	50
A-165	2 x 2	$\frac{3}{16}$	2.44	50
A-170	2 x 2	$\frac{1}{8}$	1.65	50
A-175	$1\frac{3}{4}$ x $1\frac{3}{4}$	$\frac{7}{16}$	4.6	35
A-176	$1\frac{3}{4}$ x $1\frac{3}{4}$	$\frac{3}{8}$	3.99	35
A-177	$1\frac{3}{4}$ x $1\frac{3}{4}$	$\frac{5}{16}$	3.39	35
A-178	$1\frac{3}{4}$ x $1\frac{3}{4}$	$\frac{1}{4}$	2.77	35
A-179	$1\frac{3}{4}$ x $1\frac{3}{4}$	$\frac{3}{16}$	2.12	35
A-184	$1\frac{3}{4}$ x $1\frac{3}{4}$	$\frac{1}{8}$	1.44	35
A-189	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{3}{8}$	3.35	35
A-190	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{5}{16}$	2.86	35
A-191	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{1}{4}$	2.34	35
A-192	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{3}{16}$	1.80	35
A-197	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{1}{8}$	1.23	35
A-207	$1\frac{1}{4}$ x $1\frac{1}{4}$	$\frac{5}{16}$	2.33	35
A-208	$1\frac{1}{4}$ x $1\frac{1}{4}$	$\frac{1}{4}$	1.92	35
A-209	$1\frac{1}{4}$ x $1\frac{1}{4}$	$\frac{3}{16}$	1.48	35
A-214	$1\frac{1}{4}$ x $1\frac{1}{4}$	$\frac{1}{8}$	1.01	35
A-224	1 x 1	$\frac{1}{4}$	1.49	45
A-225	1 x 1	$\frac{3}{16}$	1.16	45
A-226	1 x 1	$\frac{1}{8}$	.80	45
A-228	$\frac{7}{8}$ x $\frac{7}{8}$	$\frac{3}{16}$	1.00	45
A-229	$\frac{7}{8}$ x $\frac{7}{8}$	$\frac{1}{8}$	.70	45
A-231	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{16}$	.84	45
A-232	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{1}{8}$	.59	45

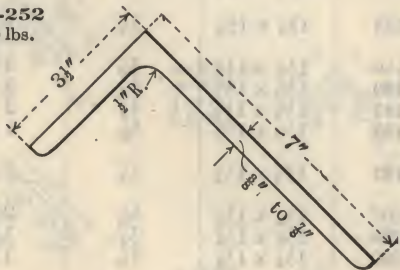
In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

# Angles with Unequal Legs

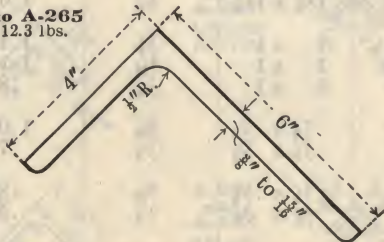
**A-233 to A-243  
and A-650**  
49.3 to 20.2 lbs.



**A-244 to A-252**  
28.7 to 13.0 lbs.



**A-256 to A-265**  
28.9 to 12.3 lbs.





# Angles with Unequal Legs

Sections appearing in bold-face type adopted as standard by the Association of American Steel Manufacturers, for bridge, car, ship and general building construction.

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-233	8 x 6	$1\frac{1}{8}$	49.3	80
A-234	8 x 6	$1\frac{1}{16}$	46.8	85
A-235	8 x 6	1	44.2	90
A-236	8 x 6	$\frac{15}{16}$	41.7	95
A-237	8 x 6	$\frac{7}{8}$	39.1	95
A-238	8 x 6	$\frac{13}{16}$	36.5	95
A-239	8 x 6	$\frac{3}{4}$	33.8	95
A-240	8 x 6	$1\frac{1}{16}$	31.2	95
A-241	8 x 6	$\frac{5}{8}$	28.5	95
A-242	8 x 6	$\frac{9}{16}$	25.7	95
A-243	8 x 6	$\frac{1}{2}$	23.0	95
A-650	8 x 6	$\frac{7}{16}$	20.2	95
A-244	7 x $3\frac{1}{2}$	$\frac{7}{8}$	28.7	79
A-245	7 x $3\frac{1}{2}$	$\frac{13}{16}$	26.8	86
A-246	7 x $3\frac{1}{2}$	$\frac{3}{4}$	24.9	95
A-247	7 x $3\frac{1}{2}$	$1\frac{1}{16}$	23.0	95
A-248	7 x $3\frac{1}{2}$	$\frac{5}{8}$	21.0	95
A-249	7 x $3\frac{1}{2}$	$\frac{9}{16}$	19.1	95
A-250	7 x $3\frac{1}{2}$	$\frac{1}{2}$	17.0	95
A-251	7 x $3\frac{1}{2}$	$\frac{7}{16}$	15.0	95
A-252	7 x $3\frac{1}{2}$	$\frac{3}{8}$	13.0	95
A-256	6 x 4	$\frac{15}{16}$	28.9	75
A-257	6 x 4	$\frac{7}{8}$	27.2	80
A-258	6 x 4	$\frac{13}{16}$	25.4	90
A-259	6 x 4	$\frac{3}{4}$	23.6	100
A-260	6 x 4	$1\frac{1}{16}$	21.8	100
A-261	6 x 4	$\frac{5}{8}$	20.0	100
A-262	6 x 4	$\frac{9}{16}$	18.1	100
A-263	6 x 4	$\frac{1}{2}$	16.2	100
A-264	6 x 4	$\frac{7}{16}$	14.3	100
A-265	6 x 4	$\frac{3}{8}$	12.3	100

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

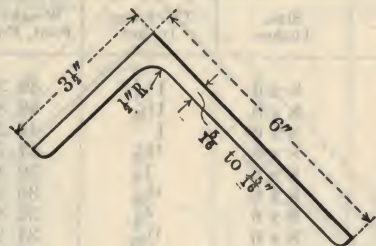
NOTE.—Lengths over 75 feet are made only by special arrangement.



## Angles with Unequal Legs

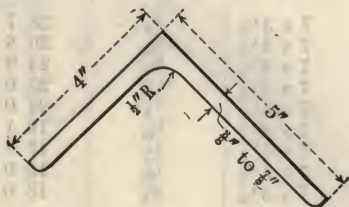
**A-271 to A-281**

27.3 to 9.8 lbs.



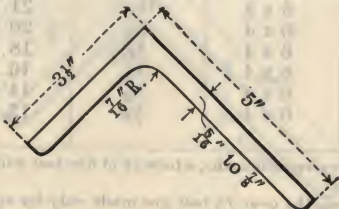
**A-285 to A-293**

24.2 to 11.0 lbs.



**A-298 to A-307**

22.7 to 8.7 lbs.



### Angles with Unequal Legs

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-271	6 x 3 1/2	15/16	27.3	75
A-272	6 x 3 1/2	7/8	25.7	80
A-273	6 x 3 1/2	13/16	24.0	85
A-274	6 x 3 1/2	3/4	22.4	95
A-275	6 x 3 1/2	11/16	20.6	100
A-276	6 x 3 1/2	5/8	18.9	100
A-277	6 x 3 1/2	9/16	17.1	100
A-278	6 x 3 1/2	1/2	15.3	100
A-279	6 x 3 1/2	7/16	13.5	100
A-280	6 x 3 1/2	3/8	11.7	100
A-281	6 x 3 1/2	5/16	9.8	100
A-285	5 x 4	7/8	24.2	60
A-286	5 x 4	13/16	22.7	68
A-287	5 x 4	3/4	21.1	75
A-288	5 x 4	11/16	19.5	82
A-289	5 x 4	5/8	17.8	90
A-290	5 x 4	9/16	16.2	100
A-291	5 x 4	1/2	14.5	100
A-292	5 x 4	7/16	12.8	100
A-293	5 x 4	3/8	11.0	100
A-298	5 x 3 1/2	7/8	22.7	65
A-299	5 x 3 1/2	13/16	21.3	73
A-300	5 x 3 1/2	3/4	19.8	80
A-301	5 x 3 1/2	11/16	18.3	87
A-302	5 x 3 1/2	5/8	16.8	90
A-303	5 x 3 1/2	9/16	15.2	100
A-304	5 x 3 1/2	1/2	13.6	100
A-305	5 x 3 1/2	7/16	12.0	100
A-306	5 x 3 1/2	3/8	10.4	100
A-307	5 x 3 1/2	5/16	8.7	100

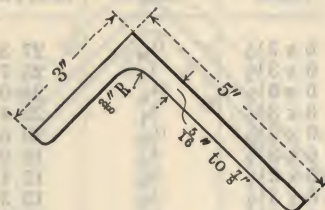
In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

NOTE.—Lengths over 75 feet are made only by special arrangement.

## Angles with Unequal Legs

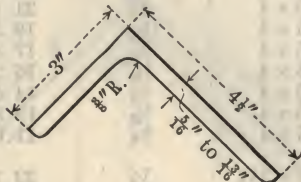
### A-312 to A-321

21.2 to 8.2 lbs.



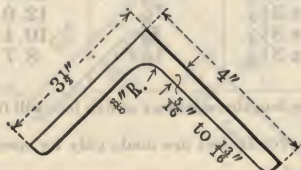
### A-326 to A-334

18.5 to 7.7 lbs.



### A-339 to A-347

18.5 to 7.7 lbs.



## Angles with Unequal Legs

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-312	5 x 3	$\frac{7}{8}$	21.2	65
A-313	5 x 3	$\frac{13}{16}$	19.9	75
A-314	5 x 3	$\frac{3}{4}$	18.5	82
A-315	5 x 3	$\frac{11}{16}$	17.1	90
A-316	5 x 3	$\frac{5}{8}$	15.7	97
A-317	5 x 3	$\frac{9}{16}$	14.3	100
A-318	5 x 3	$\frac{1}{2}$	12.8	100
A-319	5 x 3	$\frac{7}{16}$	11.3	100
A-320	5 x 3	$\frac{3}{8}$	9.8	100
A-321	5 x 3	$\frac{5}{16}$	8.2	100
A-326	$4\frac{1}{2}$ x 3	$\frac{13}{16}$	18.5	44
A-327	$4\frac{1}{2}$ x 3	$\frac{3}{4}$	17.3	46
A-328	$4\frac{1}{2}$ x 3	$\frac{11}{16}$	16.0	50
A-329	$4\frac{1}{2}$ x 3	$\frac{5}{8}$	14.7	54
A-330	$4\frac{1}{2}$ x 3	$\frac{9}{16}$	13.3	60
A-331	$4\frac{1}{2}$ x 3	$\frac{1}{2}$	11.9	65
A-332	$4\frac{1}{2}$ x 3	$\frac{7}{16}$	10.6	65
A-333	$4\frac{1}{2}$ x 3	$\frac{3}{8}$	9.1	65
A-334	$4\frac{1}{2}$ x 3	$\frac{5}{16}$	7.7	65
A-339	4 x $3\frac{1}{2}$	$\frac{13}{16}$	18.5	44
A-340	4 x $3\frac{1}{2}$	$\frac{3}{4}$	17.3	46
A-341	4 x $3\frac{1}{2}$	$\frac{11}{16}$	16.0	50
A-342	4 x $3\frac{1}{2}$	$\frac{5}{8}$	14.7	54
A-343	4 x $3\frac{1}{2}$	$\frac{9}{16}$	13.3	60
A-344	4 x $3\frac{1}{2}$	$\frac{1}{2}$	11.9	65
A-345	4 x $3\frac{1}{2}$	$\frac{7}{16}$	10.6	65
A-346	4 x $3\frac{1}{2}$	$\frac{3}{8}$	9.1	65
A-347	4 x $3\frac{1}{2}$	$\frac{5}{16}$	7.7	65

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

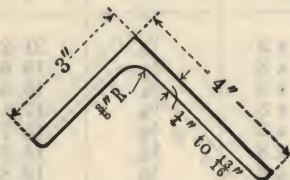
NOTE.—Lengths over 75 feet are made only by special arrangement.



# Angles with Unequal Legs

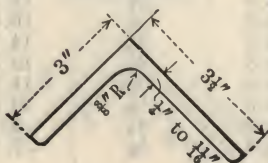
## A-352 to A-361

17.1 to 5.8 lbs.



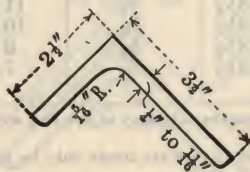
## A-365 to A-372

13.6 to 5.4 lbs.



## A-377 to A-384

12.5 to 4.9 lbs.





# Angles with Unequal Legs

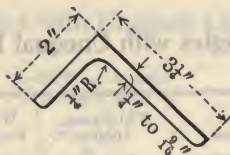
Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-352	4 x 3	$1\frac{3}{16}$	17.1	46
A-353	4 x 3	$\frac{3}{4}$	16.0	50
A-354	4 x 3	$1\frac{1}{16}$	14.8	54
A-355	4 x 3	$\frac{5}{8}$	13.6	60
A-356	4 x 3	$\frac{9}{16}$	12.4	65
A-357	4 x 3	$\frac{1}{2}$	11.1	65
A-358	4 x 3	$\frac{7}{16}$	9.8	65
A-359	4 x 3	$\frac{3}{8}$	8.5	65
A-360	4 x 3	$\frac{5}{16}$	7.2	65
A-361	4 x 3	$\frac{1}{4}$	5.8	65
A-365	$3\frac{1}{2}$ x 3	$1\frac{1}{16}$	13.6	40
A-366	$3\frac{1}{2}$ x 3	$\frac{5}{8}$	12.5	44
A-367	$3\frac{1}{2}$ x 3	$\frac{9}{16}$	11.4	48
A-368	$3\frac{1}{2}$ x 3	$\frac{1}{2}$	10.2	50
A-369	$3\frac{1}{2}$ x 3	$\frac{7}{16}$	9.1	55
A-370	$3\frac{1}{2}$ x 3	$\frac{3}{8}$	7.9	60
A-371	$3\frac{1}{2}$ x 3	$\frac{5}{16}$	6.6	65
A-372	$3\frac{1}{2}$ x 3	$\frac{1}{4}$	5.4	65
A-377	$3\frac{1}{2}$ x $2\frac{1}{2}$	$1\frac{1}{16}$	12.5	44
A-378	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{5}{8}$	11.5	48
A-379	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{9}{16}$	10.4	50
A-380	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{2}$	9.4	54
A-381	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{7}{16}$	8.3	65
A-382	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{3}{8}$	7.2	65
A-383	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{5}{16}$	6.1	65
A-384	$3\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{4}$	4.9	65

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

# Angles With Unequal Legs

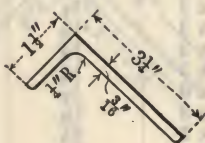
## \*A-389 to A-394

9.0 to 4.3 lbs.



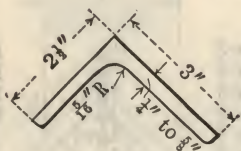
## A-399

2.91 lbs.



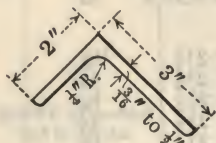
## A-404 to A-410

10.4 to 4.5 lbs.



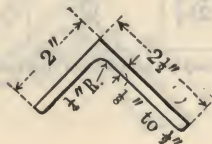
## A-415 to A-420

7.7 to 3.07 lbs.



## A-425 to A-431

6.8 to 1.86 lbs.



\*NOTE.—Made only by special arrangement.

### Angles with Unequal Legs

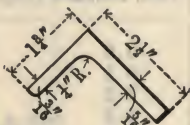
Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
*A-389	3 1/4 x 2	9/16	9.0	26
*A-390	3 1/4 x 2	1 1/2	8.1	30
*A-391	3 1/4 x 2	7/16	7.2	35
*A-392	3 1/4 x 2	3/8	6.3	40
*A-393	3 1/4 x 2	5/16	5.3	45
*A-394	3 1/4 x 2	1/4	4.3	50
A-399	3 1/4 x 1 1/2	3/16	2.91	40
A-404	3 x 2 1/2	5/8	10.4	50
A-405	3 x 2 1/2	9/16	9.5	55
A-406	3 x 2 1/2	1 1/2	8.5	65
A-407	3 x 2 1/2	7/16	7.6	65
A-408	3 x 2 1/2	3/8	6.6	65
A-409	3 x 2 1/2	5/16	5.6	65
A-410	3 x 2 1/2	1/4	4.5	65
A-415	3 x 2	1 1/2	7.7	31
A-416	3 x 2	7/16	6.8	35
A-417	3 x 2	3/8	5.9	40
A-418	3 x 2	5/16	5.0	50
A-419	3 x 2	1/4	4.1	50
A-420	3 x 2	3/16	3.07	50
A-425	2 1/2 x 2	1 1/2	6.8	35
A-426	2 1/2 x 2	7/16	6.1	45
A-427	2 1/2 x 2	3/8	5.3	45
A-428	2 1/2 x 2	5/16	4.5	50
A-429	2 1/2 x 2	1/4	3.62	50
A-430	2 1/2 x 2	3/16	2.75	50
A-431	2 1/2 x 2	1/8	1.86	50

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

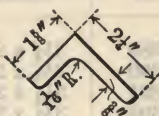
\*NOTE.—Made only by special arrangement.

# Angles with Unequal Legs

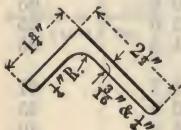
**A-435**  
3.58 lbs.



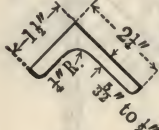
**A-456**  
4.5 lbs.



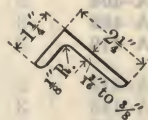
**A-440 and A-441**  
3.40 and 2.59 lbs.



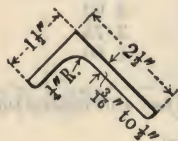
**A-461 to A-467**  
5.6 to 1.91 lbs.



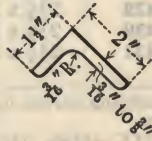
**A-468 to A-471**  
3.99 to 2.12 lbs.



**A-446 to A-451**  
6.0 to 2.44 lbs.



**A-472 to A-475**  
3.99 to 2.12 lbs.





### Angles with Unequal Legs

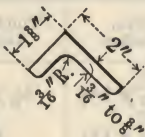
Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-435	$2\frac{1}{2} \times 1\frac{3}{4}$	$\frac{5}{16} \times \frac{3}{16}$	3.58	50
A-440	$2\frac{1}{2} \times 1\frac{3}{4}$	$\frac{1}{4}$	3.40	50
A-441	$2\frac{1}{2} \times 1\frac{3}{4}$	$\frac{3}{16}$	2.59	50
A-446	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{1}{2}$	6.0	45
A-447	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{7}{16}$	5.3	45
A-448	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{3}{8}$	4.7	45
A-449	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{5}{16}$	3.92	50
A-450	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{1}{4}$	3.19	50
A-451	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{3}{16}$	2.44	50
A-456	$2\frac{1}{4} \times 1\frac{5}{8}$	$\frac{3}{8}$	4.5	45
A-461	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{1}{2}$	5.6	45
A-462	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{7}{16}$	5.0	45
A-463	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{3}{8}$	4.3	45
A-464	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{5}{16}$	3.66	50
A-465	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{1}{4}$	2.98	50
A-466	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{3}{16}$	2.28	50
A-467	$2\frac{1}{4} \times 1\frac{1}{2}$	$\frac{5}{32}$	1.91	50
A-468	$2\frac{1}{4} \times 1\frac{1}{4}$	$\frac{3}{8}$	3.99	35
A-469	$2\frac{1}{4} \times 1\frac{1}{4}$	$\frac{5}{16}$	3.39	35
A-470	$2\frac{1}{4} \times 1\frac{1}{4}$	$\frac{1}{4}$	2.77	35
A-471	$2\frac{1}{4} \times 1\frac{1}{4}$	$\frac{3}{16}$	2.12	35
A-472	$2 \times 1\frac{1}{2}$	$\frac{3}{8}$	3.99	35
A-473	$2 \times 1\frac{1}{2}$	$\frac{5}{16}$	3.39	35
A-474	$2 \times 1\frac{1}{2}$	$\frac{1}{4}$	2.77	35
A-475	$2 \times 1\frac{1}{2}$	$\frac{3}{16}$	2.12	35
A-476	$2 \times 1\frac{1}{2}$	$\frac{1}{8}$	1.44	35

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

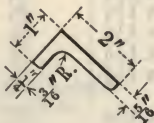


## Angles With Unequal Legs

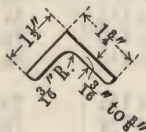
**A-480  
to  
A-483**  
3.83 to 2.04 lbs.



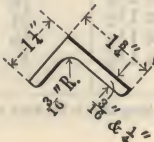
**A-488**  
2.71 lbs.



**A-493  
to  
A-496**  
3.67 to  
1.96 lbs.



**A-498  
and  
A-499**  
2.34 and  
1.80 lbs.



# Angles with Unequal Legs

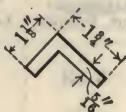
Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-480	2 x 1 $\frac{3}{8}$	$\frac{3}{8}$	3.83	35
A-481	2 x 1 $\frac{3}{8}$	$\frac{5}{16}$	3.26	35
A-482	2 x 1 $\frac{3}{8}$	$\frac{1}{4}$	2.66	35
A-483	2 x 1 $\frac{3}{8}$	$\frac{3}{16}$	2.04	35
A-488	2 x 1	$\frac{5}{16}$ x $\frac{1}{4}$	2.71	35
A-493	1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	$\frac{3}{8}$	3.67	35
A-494	1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	$\frac{5}{16}$	3.13	35
A-495	1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	$\frac{1}{4}$	2.55	35
A-496	1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	$\frac{3}{16}$	1.96	35
A-498	1 $\frac{3}{4}$ x 1 $\frac{1}{4}$	$\frac{1}{4}$	2.34	35
A-499	1 $\frac{3}{4}$ x 1 $\frac{1}{4}$	$\frac{3}{16}$	1.80	35

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.

# Angles with Unequal Legs

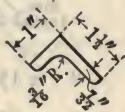
**A-501**

2.73 lbs.



**A-507**

1.70 lbs.



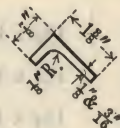
**A-502**

2.61 lbs.



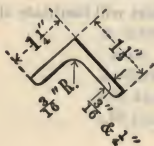
**A-512 and A-513**

1.32 and 0.91 lbs.



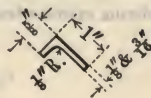
**A-504 and A-505**

2.13 and 1.64 lbs.



**A-523 and A-524**

0.92 and 0.64 lbs.



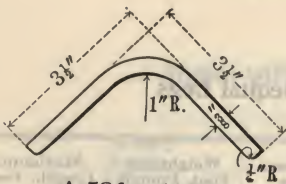
## Angles with Unequal Legs

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds	Maximum Length, Feet
A-501	$1\frac{3}{4} \times 1\frac{1}{8}$	$\frac{5}{16}$	2.73	35
A-502	$1\frac{3}{4} \times 1\frac{1}{8}$	$\frac{19}{64}$	2.61	35
A-504	$1\frac{1}{2} \times 1\frac{1}{4}$	$\frac{1}{4}$	2.13	35
A-505	$1\frac{1}{2} \times 1\frac{1}{4}$	$\frac{3}{16}$	1.64	35
A-507	$1\frac{1}{2} \times 1$	$\frac{7}{32}$	1.70	35
A-512	$1\frac{3}{8} \times \frac{7}{8}$	$\frac{3}{16}$	1.32	45
A-513	$1\frac{3}{8} \times \frac{7}{8}$	$\frac{1}{8}$	.91	45
A-523	1 x $\frac{5}{8}$	$\frac{3}{16}$	.92	45
A-524	1 x $\frac{5}{8}$	$\frac{1}{8}$	.64	45

In ordering extreme lengths, a leeway of five feet will facilitate the execution of orders.



# Special Angles



**A-584 to A-587**  
11.3 to 7.8 lbs.



**A-589 and A-590**  
4.0 and 3.34 lbs.



**A-591**  
0.51 lbs.



**A-592**  
3.12 lbs.



**A-596**  
2.19 lbs.



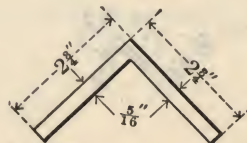
**A-597**  
1.98 lbs.



**A-603**  
1.00 lbs.



**A-604**  
1.26 lbs.



**A-615**  
5.6 lbs.



**Special Angles**  
**Round Back Angles**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
A-584	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{9}{16}$	11.3
A-585	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2}$	10.2
A-586	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{7}{16}$	9.0
A-587	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{3}{8}$	7.8
A-589	$2 \times 1\frac{5}{8}$	$\frac{23}{64}$	4.0
A-590	$2 \times 1\frac{5}{8}$	$\frac{19}{64}$	3.34
A-591	$\frac{5}{8} \times \frac{1}{2}$	$\frac{5}{32}$	.51
A-592	$1\frac{7}{8} \times 1\frac{1}{2}$	$\frac{19}{64}$	3.12

**Round Back 60° Angles**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
A-596	$2\frac{1}{2} \times 2\frac{1}{2}$	$\frac{1}{8}$	2.19
A-597	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{1}{8}$	1.98

**Odd Angles**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
A-603	$1\frac{1}{4} \times \frac{3}{4}$	$\frac{1}{8}$ to $\frac{5}{32} \times \frac{3}{16}$	1.00
A-604	$1\frac{1}{4} \times 1\frac{5}{32}$	$\frac{1}{4}$	1.26

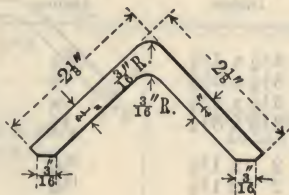
**Special Square Root Angle**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
A-615	$2\frac{3}{4} \times 2\frac{3}{4}$	$\frac{5}{16}$	5.6

## Cold Finished Harvester Angles With Equal Legs

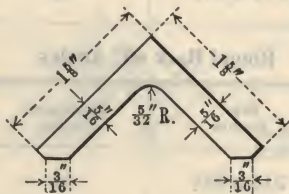
**A-534**

3.37 lbs.



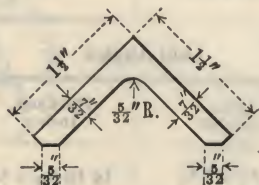
**A-539**

3.00 lbs.



**A-544, A-545**

2.35 and 2.00 lbs.



**A-550**

1.80 lbs.



NOTE.—The edges of legs are not cold finished.

Cold Finished Harvester Angles  
With Equal Legs

**Cold Finished Harvester Angles  
With Equal Legs**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
A-534	$2\frac{1}{8} \times 2\frac{1}{8}$	$\frac{1}{4}$	3.37
A-539	$1\frac{5}{8} \times 1\frac{5}{8}$	$\frac{5}{16}$	3.00
A-544	$1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{1}{4}$	2.35
A-545	$1\frac{1}{2} \times 1\frac{1}{2}$	$\frac{7}{32}$	2.00
A-550	$1\frac{5}{16} \times 1\frac{5}{16}$	$\frac{7}{32}$	1.80

NOTE.—Edges of legs are not cold finished.



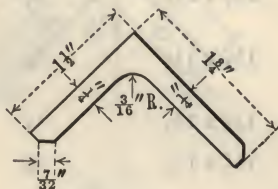
Technical drawing of a cold finished harvester angle with equal legs.

# Cold Finished Harvester Angles With Unequal Legs

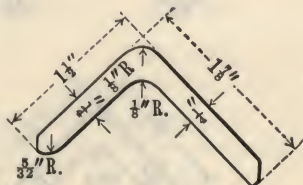
**A-565, A-566**  
3.40 and 2.75 lbs.



**A-571, A-572**  
3.06 and 2.50 lbs.



**A-577**  
2.60 lbs.



NOTE.—Edges of legs are not cold finished.



Angles with Equal Legs



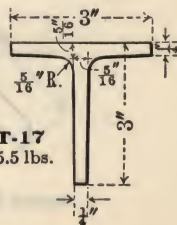
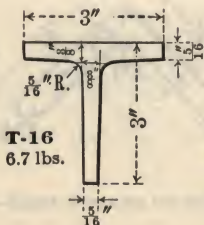
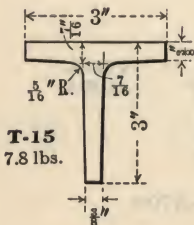
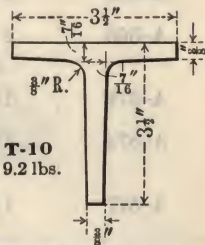
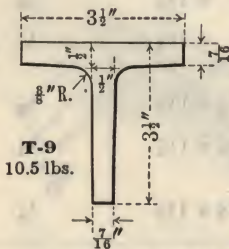
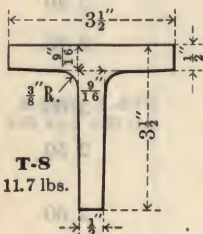
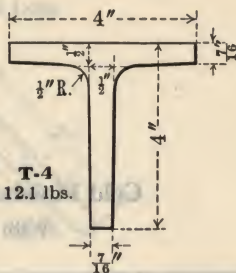
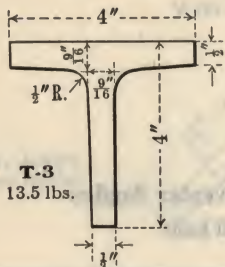
**Cold Finished Harvester Angles  
With Unequal Legs**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
A-565	2 x 1 $\frac{5}{8}$	$\frac{5}{16}$	3.40
A-566	2 x 1 $\frac{5}{8}$	$\frac{1}{4}$	2.75
A-571	1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	$\frac{5}{16}$	3.06
A-572	1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	$\frac{1}{4}$	2.50
A-577	1 $\frac{7}{8}$ x 1 $\frac{1}{2}$	$\frac{1}{4}$	2.60

NOTE.—Edges of legs are not cold finished.



# Tees with Equal Legs

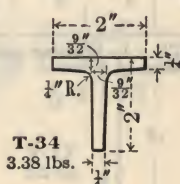
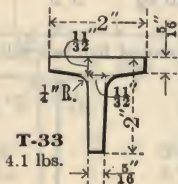
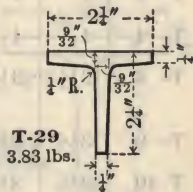
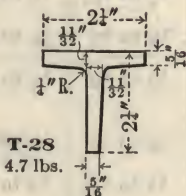
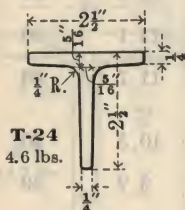
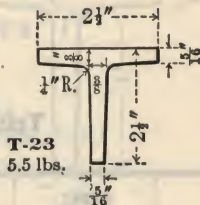
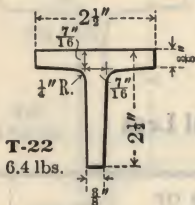


Tees with Equal Legs

Section Index	SIZE, INCHES		THICKNESS OF METAL, INCHES		Weight, per Foot, Pounds	Maximum Length in Feet
	Table	Stem	Table	Stem		
T- 3	4	4	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	13.5	40
T- 4	4	4	$\frac{7}{16}$ to $\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	12.1	40
T- 8	$3\frac{1}{2}$	$3\frac{1}{2}$	$\frac{1}{2}$ to $\frac{9}{16}$	$\frac{1}{2}$ to $\frac{9}{16}$	11.7	40
T- 9	$3\frac{1}{2}$	$3\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	$\frac{7}{16}$ to $\frac{1}{2}$	10.5	40
T-10	$3\frac{1}{2}$	$3\frac{1}{2}$	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	9.2	40
T-15	3	3	$\frac{3}{8}$ to $\frac{7}{16}$	$\frac{3}{8}$ to $\frac{7}{16}$	7.8	40
T-16	3	3	$\frac{5}{16}$ to $\frac{3}{8}$	$\frac{5}{16}$ to $\frac{3}{8}$	6.7	40
T-17	3	3	$\frac{1}{4}$ to $\frac{5}{16}$	$\frac{1}{4}$ to $\frac{5}{16}$	5.5	40

NOTE.—In ordering extreme lengths a leeway of five feet will facilitate the execution of orders.

# Tees with Equal Legs



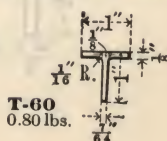
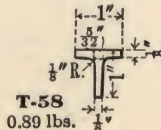
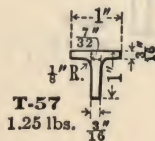
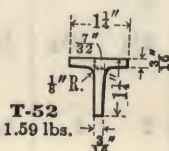
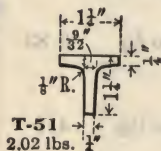
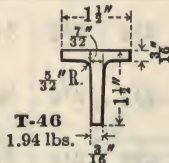
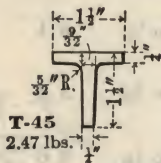
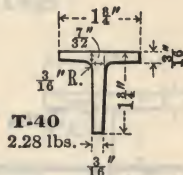
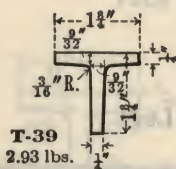


Tees with Equal Legs

Section Index	SIZE, INCHES		THICKNESS OF METAL, INCHES		Weight, per Foot, Pounds	Maximum Length in Feet
	Table	Stem	Table	Stem		
T-22	2½	2½	⅜ to ⅞	⅜ to ⅞	6.4	40
T-23	2½	2½	⅝ to ⅜	⅝ to ⅜	5.5	45
T-24	2½	2½	¼ to ⅝	¼ to ⅝	4.6	50
T-28	2¼	2¼	⅝ to 11/32	⅝ to 11/32	4.7	50
T-29	2¼	2¼	¼ to 9/32	¼ to 9/32	3.83	50
T-33	2	2	⅝ to 11/32	⅝ to 11/32	4.1	50
T-34	2	2	¼ to 9/32	¼ to 9/32	3.38	50

NOTE.—In ordering extreme lengths a leeway of five feet will facilitate the execution of orders.

# Tees with Equal Legs

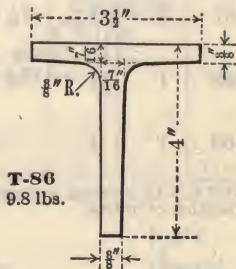
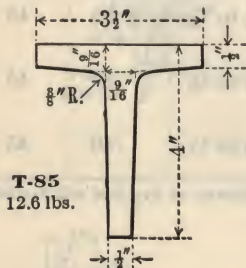
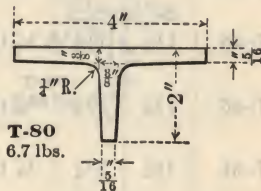
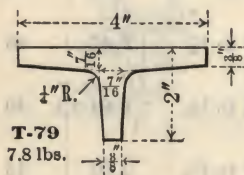
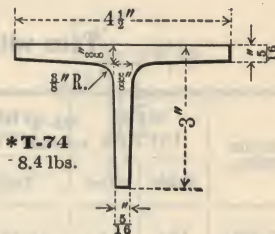
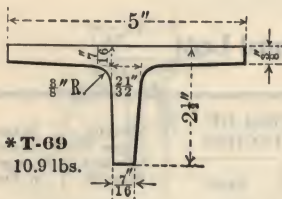


Tees with Equal Legs

Section Index	SIZE, INCHES		THICKNESS OF METAL, INCHES		Weight, per Foot, Pounds	Maximum Length in Feet
	Table	Stem	Table	Stem		
T-39	1¾	1¾	¼ to ⅝	¼ to ⅝	2.93	40
T-40	1¾	1¾	⅜ to ⅞	⅜ to ⅞	2.28	40
T-45	1½	1½	¼ to ⅝	¼ to ⅝	2.47	40
T-46	1½	1½	⅜ to ⅞	⅜ to ⅞	1.94	40
T-51	1¼	1¼	¼ to ⅝	¼ to ⅝	2.02	45
T-52	1¼	1¼	⅜ to ⅞	⅜ to ⅞	1.59	45
T-57	1	1	⅜ to ⅞	⅜ to ⅞	1.25	45
T-58	1	1	⅛ to ⅝	⅛ to ⅝	.89	45
T-60	1	1	⅛	⅜ to ⅛	.80	45

NOTE.—In ordering extreme lengths a leeway of five feet will facilitate the execution of orders.

### Tees with Unequal Legs



\*NOTE.—Made only by special arrangement.



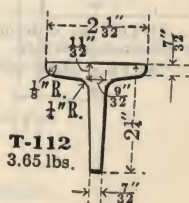
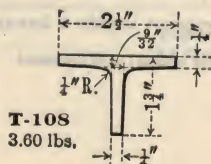
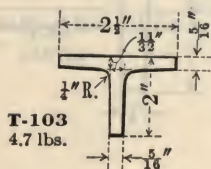
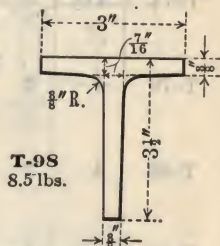
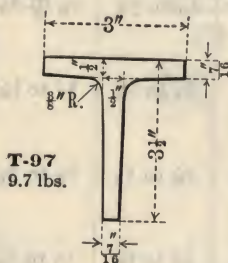
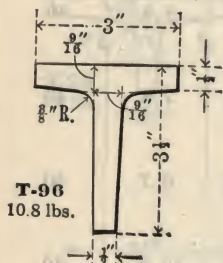
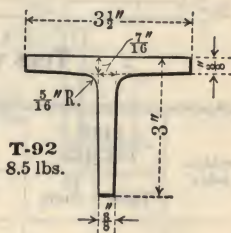
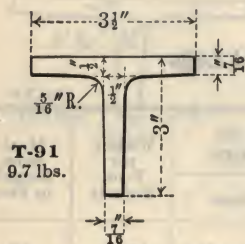
# Tees with Unequal Legs

Section Index	SIZE, INCHES		THICKNESS OF METAL, INCHES		Weight, per Foot, Pounds	Maximum Length in Feet
	Table	Stem	Table	Stem		
*T-69	5	2½	⅜ to ⅞	⅞ to 21/32	10.9	40
*T-74	4½	3	5/16 to ⅜	5/16 to ⅜	8.4	40
T-79	4	2	⅜ to ⅞	⅜ to ⅞	7.8	40
T-80	4	2	5/16 to ⅜	5/16 to ⅜	6.7	40
T-85	3½	4	½ to 9/16	½ to 9/16	12.6	40
T-86	3½	4	⅜ to ⅞	⅜ to ⅞	9.8	40

NOTE.—In ordering extreme lengths a leeway of five feet will facilitate the execution of orders.

\*NOTE.—Made only by special arrangement.

# Tees with Unequal Legs

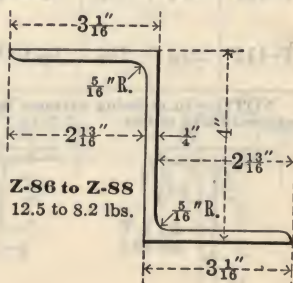
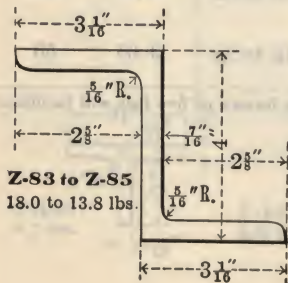
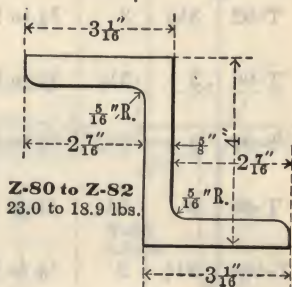
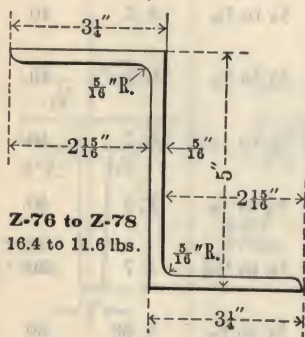
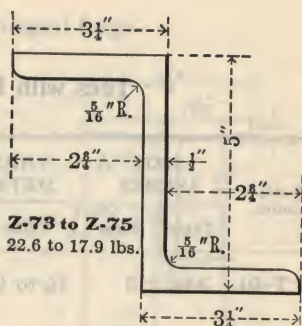
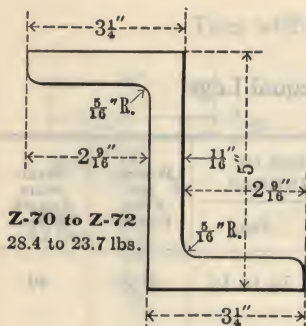


### Tees with Unequal Legs

Section Index	SIZE, INCHES		THICKNESS OF METAL, INCHES		Weight, per Foot, Pounds	Maximum Length in Feet
	Table	Stem	Table	Stem		
T-91	3½	3	⅞ to ½	⅞ to ½	9.7	40
T-92	3½	3	¾ to ⅞	¾ to ⅞	8.5	40
T-96	3	3½	½ to ⅞	½ to ⅞	10.8	40
T-97	3	3½	⅞ to ½	⅞ to ½	9.7	40
T-98	3	3½	¾ to ⅞	¾ to ⅞	8.5	40
T-103	2½	2	⅝ to 11/32	⅝ to 11/32	4.7	50
T-108	2½	1¾	¼ to ⅞	¼ to ⅞	3.60	50
T-112	2½	2¼	⅞ to 11/32	⅞ to ⅞	3.65	50

NOTE.—In ordering extreme lengths a leeway of five feet will facilitate the execution of orders.

Zees



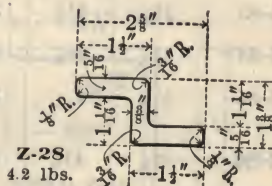
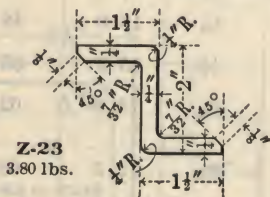
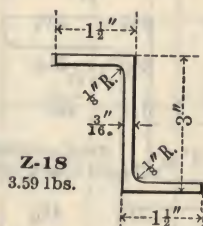
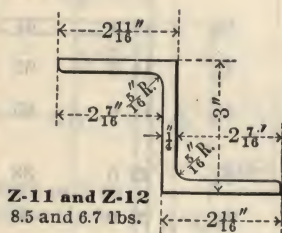
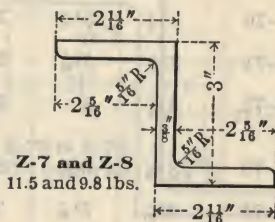
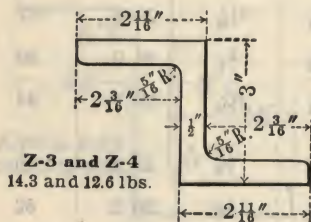


# JONES & LAUGHLIN STEEL COMPANY

## Zees

Section Index	SIZE, INCHES			Thickness of Metal, Inches	Weight, per Foot, Pounds	Maximum Length in Feet
	Flange	Web	Flange			
Z-70	3 $\frac{3}{8}$	5 $\frac{1}{8}$	3 $\frac{3}{8}$	1 $\frac{3}{16}$	28.4	37
Z-71	3 $\frac{5}{16}$	5 $\frac{1}{16}$	3 $\frac{5}{16}$	$\frac{3}{4}$	26.0	40
Z-72	3 $\frac{1}{4}$	5	3 $\frac{1}{4}$	1 $\frac{1}{16}$	23.7	44
Z-73	3 $\frac{3}{8}$	5 $\frac{1}{8}$	3 $\frac{3}{8}$	$\frac{5}{8}$	22.6	46
Z-74	3 $\frac{5}{16}$	5 $\frac{1}{16}$	3 $\frac{5}{16}$	$\frac{9}{16}$	20.2	52
Z-75	3 $\frac{1}{4}$	5	3 $\frac{1}{4}$	$\frac{1}{2}$	17.9	60
Z-76	3 $\frac{3}{8}$	5 $\frac{1}{8}$	3 $\frac{3}{8}$	$\frac{7}{16}$	16.4	61
Z-77	3 $\frac{5}{16}$	5 $\frac{1}{16}$	3 $\frac{5}{16}$	$\frac{3}{8}$	14.0	65
Z-78	3 $\frac{1}{4}$	5	3 $\frac{1}{4}$	$\frac{5}{16}$	11.6	65
Z-80	3 $\frac{3}{16}$	4 $\frac{1}{8}$	3 $\frac{3}{16}$	$\frac{3}{4}$	23.0	38
Z-81	3 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{8}$	1 $\frac{1}{16}$	20.9	42
Z-82	3 $\frac{1}{16}$	4	3 $\frac{1}{16}$	$\frac{5}{8}$	18.9	46
Z-83	3 $\frac{3}{16}$	4 $\frac{1}{8}$	3 $\frac{3}{16}$	$\frac{9}{16}$	18.0	48
Z-84	3 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{8}$	$\frac{1}{2}$	15.9	55
Z-85	3 $\frac{1}{16}$	4	3 $\frac{1}{16}$	$\frac{7}{16}$	13.8	62
Z-86	3 $\frac{3}{16}$	4 $\frac{1}{8}$	3 $\frac{3}{16}$	$\frac{3}{8}$	12.5	65
Z-87	3 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{8}$	$\frac{5}{16}$	10.3	65
Z-88	3 $\frac{1}{16}$	4	3 $\frac{1}{16}$	$\frac{1}{4}$	8.2	65

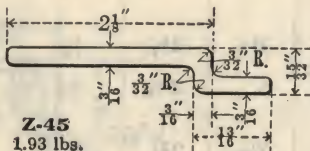
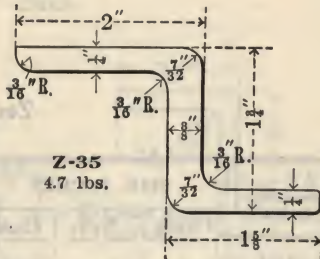
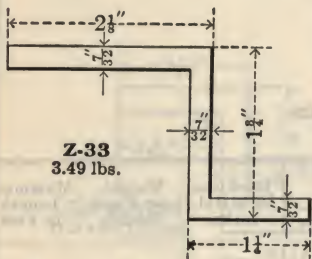
# Zees



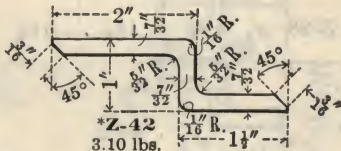
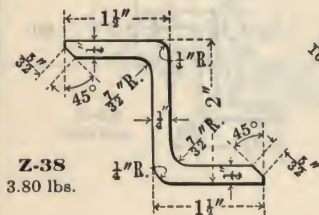
Zees

Section Index	SIZE, INCHES			Thickness of Metal, Inches	Weight, per Foot, Pounds	Maximum Length in Feet
	Flange	Web	Flange			
Z- 3	2 $\frac{3}{4}$	3 $\frac{1}{16}$	2 $\frac{3}{4}$	$\frac{9}{16}$	14.3	56
Z- 4	2 $\frac{11}{16}$	3	2 $\frac{11}{16}$	$\frac{1}{2}$	12.6	64
Z- 7	2 $\frac{3}{4}$	3 $\frac{1}{16}$	2 $\frac{3}{4}$	$\frac{7}{16}$	11.5	65
Z- 8	2 $\frac{11}{16}$	3	2 $\frac{11}{16}$	$\frac{3}{8}$	9.8	65
Z-11	2 $\frac{3}{4}$	3 $\frac{1}{16}$	2 $\frac{3}{4}$	$\frac{5}{16}$	8.5	65
Z-12	2 $\frac{11}{16}$	3	2 $\frac{11}{16}$	$\frac{1}{4}$	6.7	65
Z-18	1 $\frac{1}{2}$	3	1 $\frac{1}{2}$	$\frac{3}{16}$	3.59	60
Z-23	1 $\frac{1}{2}$	2	1 $\frac{1}{2}$	$\frac{1}{4}$	3.80	60
Z-28	1 $\frac{1}{2}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	$\frac{3}{8} \times \frac{5}{16}$	4.2	60

## Zees



## Cold Finished Harvester Zees



\*Can be hot rolled to dimensions shown.



**Zees**

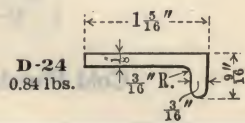
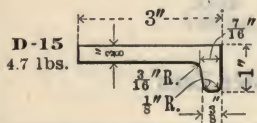
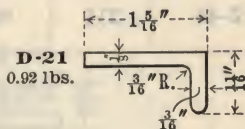
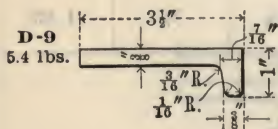
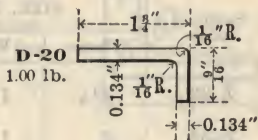
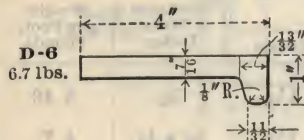
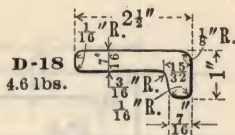
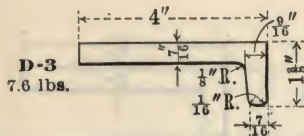
Section Index	SIZE, INCHES			Thickness of Metal, Inches	Weight per Foot, Pounds
	Flange	Web	Flange		
Z-33	2 $\frac{1}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{4}$	$\frac{7}{32}$	3.49
Z-35	2	1 $\frac{3}{4}$	1 $\frac{5}{8}$	$\frac{3}{8}$ x $\frac{1}{4}$	4.7
Z-45	2 $\frac{1}{8}$	1 $\frac{5}{32}$	1 $\frac{13}{16}$	$\frac{3}{16}$	1.93

**Cold Finished Harvester Zees**

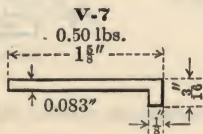
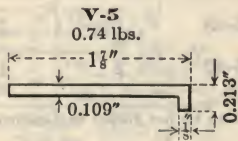
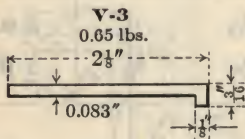
Section Index	SIZE, INCHES			Thickness of Metal, Inches	Weight per Foot, Pounds
	Flange	Web	Flange		
Z-38	1 $\frac{1}{2}$	2	1 $\frac{1}{2}$	$\frac{1}{4}$	3.80
*Z-42	2	1	1 $\frac{1}{2}$	$\frac{7}{32}$	3.10

\*Can be hot rolled to dimensions shown.

## Dropper Bars



## Wearing Plates



### Dropper Bars

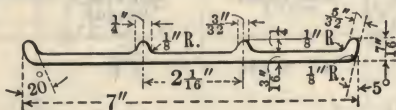
Section Index	Size, Inches	Weight, per Foot, Pounds	Maximum Length of Dropper, Bars, Feet
D- 3	4 x $1\frac{3}{8}$	7.6	50
D- 6	4 x 1	6.7	35
D- 9	$3\frac{1}{2}$ x 1	5.4	35
D-15	3 x 1	4.7	50
D-18	$2\frac{1}{2}$ x 1	4.6	35
D-20	$1\frac{3}{4}$ x $\frac{9}{16}$	1.00	35
D-21	$1\frac{5}{16}$ x $1\frac{1}{16}$	.92	50
D-24	$1\frac{5}{16}$ x $\frac{9}{16}$	.84	50

### Wearing Plates

Section Index	Size, Inches	Weight per Foot, Pounds
V-3	$2\frac{1}{8}$ x $\frac{3}{16}$	.65
V-5	$1\frac{7}{8}$ x .213	.74
V-7	$1\frac{5}{8}$ x $\frac{3}{16}$	.50

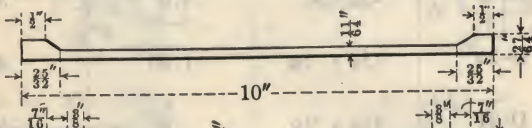
### Beaded and Ribbed Harvester Tire

**H-5**  
5.0 lbs.

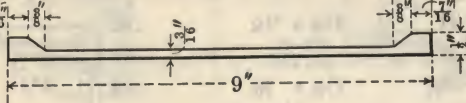


### Beaded Harvester Tires

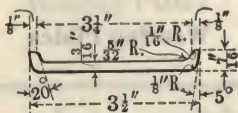
**H-10**  
7.0 lbs.



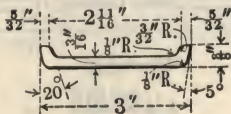
**H-12**  
7.0 lbs.



**H-20**  
2.5 lbs.



**H-22**  
2.0 lbs.





### Beaded and Ribbed Harvester Tire

Section Index	Size, Inches	Weight per Foot, Pounds
H-5	7 x $\frac{1}{16}$ x $\frac{3}{16}$	5.0

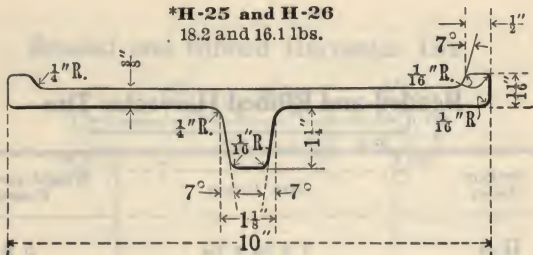
### Beaded Harvester Tires

Section Index	Size, Inches	Weight per Foot, Pounds
H-10	10 x $2\frac{7}{64}$ x $1\frac{1}{64}$	7.0
H-12	9 x $\frac{1}{2}$ x $\frac{3}{16}$	7.0
H-20	$3\frac{1}{2}$ x $\frac{7}{16}$ x $\frac{3}{16}$	2.50
H-22	3 x $\frac{3}{8}$ x $\frac{3}{16}$	2.00

## Tractor Tire

**\*H-25 and H-26**

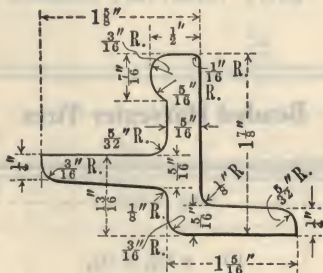
18.2 and 16.1 lbs.



### Reaper and Harvester Finger Bar

**\*II-34**

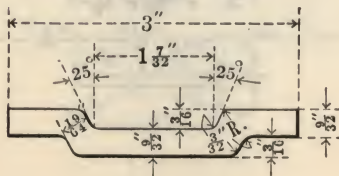
4.4 lbs.



## Binder Section

\*H-38

3.11 lbs.



\*NOTE.—These sections made only by special arrangement.

### Tractor Tire

Section Index	Size, Inches	Weight per Foot, Pounds
*H-25	10 x $1\frac{1}{16}$ x $\frac{3}{8}$	18.2
*H-26	10 x $\frac{5}{8}$ x $\frac{5}{16}$	16.1

### Reaper and Harvester Finger Bar

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
*H-34	$1\frac{7}{8}$ x $1\frac{5}{8}$ x $1\frac{5}{16}$	$\frac{5}{16}$	4.4

### Binder Section

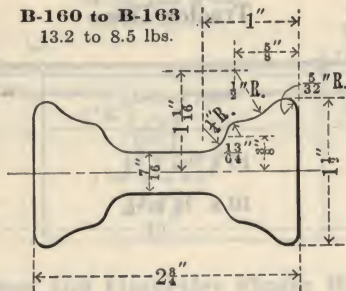
Section Index	Size, Inches	Weight per Foot, Pounds
*H-38	3 x $\frac{9}{32}$	3.11

\*NOTE.—These sections made only by special arrangement.

# Plow Beams

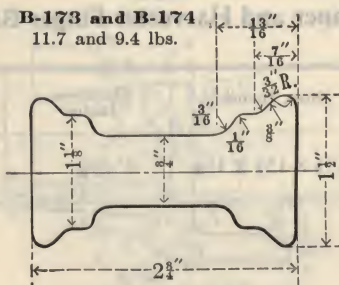
## B-160 to B-163

13.2 to 8.5 lbs.



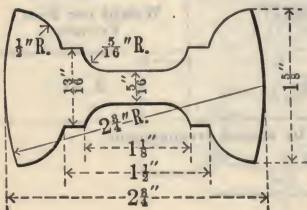
## B-173 and B-174

11.7 and 9.4 lbs.



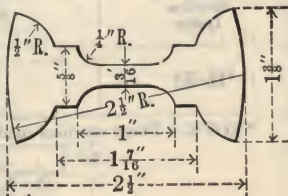
## B-430 to B-435

12.8 to 8.1 lbs.



## B-450 to B-455

11.2 to 5.8 lbs.





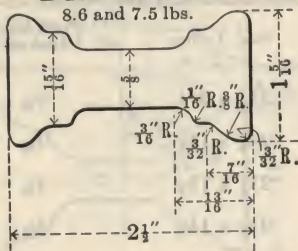
## Plow Beams

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
B-160	$2\frac{3}{4} \times 2$	$\frac{15}{16}$	13.2
B-161	$2\frac{3}{4} \times 1\frac{3}{4}$	$\frac{11}{16}$	10.8
B-162	$2\frac{3}{4} \times 1\frac{5}{8}$	$\frac{9}{16}$	9.7
B-163	$2\frac{3}{4} \times 1\frac{1}{2}$	$\frac{7}{16}$	8.5
B-173	$2\frac{3}{4} \times 1\frac{3}{4}$	1	11.7
B-174	$2\frac{3}{4} \times 1\frac{1}{2}$	$\frac{3}{4}$	9.4
B-430	$2\frac{3}{4} \times 2\frac{1}{8}$	$\frac{13}{16}$	12.8
B-431	$2\frac{3}{4} \times 2$	$\frac{11}{16}$	11.7
B-432	$2\frac{3}{4} \times 1\frac{7}{8}$	$\frac{9}{16}$	10.5
B-433	$2\frac{3}{4} \times 1\frac{3}{4}$	$\frac{7}{16}$	9.3
B-434	$2\frac{3}{4} \times 1\frac{21}{32}$	$\frac{11}{32}$	8.4
B-435	$2\frac{3}{4} \times 1\frac{5}{8}$	$\frac{5}{16}$	8.1
B-450	$2\frac{1}{2} \times 2$	$\frac{13}{16}$	11.2
B-451	$2\frac{1}{2} \times 1\frac{7}{8}$	$\frac{11}{16}$	10.1
B-452	$2\frac{1}{2} \times 1\frac{3}{4}$	$\frac{9}{16}$	9.1
B-453	$2\frac{1}{2} \times 1\frac{5}{8}$	$\frac{7}{16}$	8.0
B-454	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{5}{16}$	6.9
B-455	$2\frac{1}{2} \times 1\frac{3}{8}$	$\frac{3}{16}$	5.8

# Plow Beams

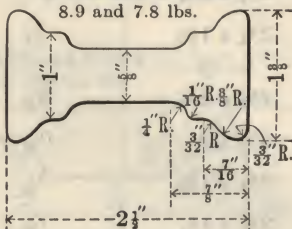
## B-183 and B-184

8.6 and 7.5 lbs.



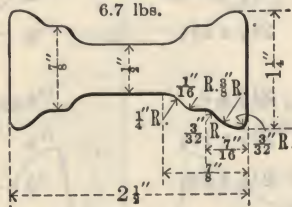
## B-188 and B-189

8.9 and 7.8 lbs.



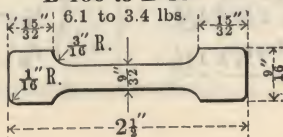
## B-190

6.7 lbs.



## B-460 to B-465

6.1 to 3.4 lbs.

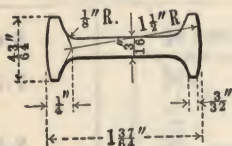


# Plow Beams

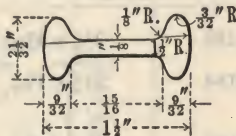
Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
B-183	$2\frac{1}{2} \times 1\frac{1}{16}$	$\frac{3}{4}$	8.6
B-184	$2\frac{1}{2} \times 1\frac{5}{16}$	$\frac{5}{8}$	7.5
B-188	$2\frac{1}{2} \times 1\frac{1}{2}$	$\frac{3}{4}$	8.9
B-189	$2\frac{1}{2} \times 1\frac{3}{8}$	$\frac{5}{8}$	7.8
B-190	$2\frac{1}{2} \times 1\frac{1}{4}$	$\frac{1}{2}$	6.7
B-460	$2\frac{1}{2} \times \frac{7}{8}$	$\frac{19}{32}$	6.1
B-461	$2\frac{1}{2} \times 1\frac{3}{16}$	$\frac{17}{32}$	5.6
B-462	$2\frac{1}{2} \times \frac{3}{4}$	$\frac{15}{32}$	5.0
B-463	$2\frac{1}{2} \times 1\frac{1}{16}$	$\frac{13}{32}$	4.5
B-464	$2\frac{1}{2} \times \frac{5}{8}$	$\frac{11}{32}$	3.95
B-465	$2\frac{1}{2} \times \frac{9}{16}$	$\frac{9}{32}$	3.40

# Cultivator Beams

**B-200**  
1.50 lbs.



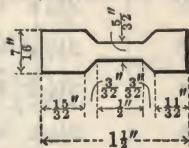
**B-205**  
1.40 lbs.



**B-210**  
2.23 lbs.



**B-215 to B-217**  
2.32, 2.00 and 1.68 lbs.





# JONES & LAUGHLIN STEEL COMPANY



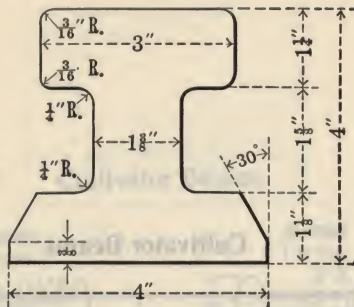
**Cultivator Beams**

Section Index	Size, Inches	Thickness, Inches	Weight per Foot, Pounds
B-200	$1\frac{37}{64} \times 4\frac{2}{64}$	$\frac{3}{16}$	1.50
B-205	$1\frac{1}{2} \times 2\frac{1}{32}$	$\frac{1}{8}$	1.40
B-210	$1\frac{1}{2} \times \frac{9}{16}$	$\frac{9}{32}$	2.23
B-215	$1\frac{1}{2} \times \frac{9}{16}$	$\frac{9}{32}$	2.32
B-216	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{7}{32}$	2.00
B-217	$1\frac{1}{2} \times \frac{7}{16}$	$\frac{5}{32}$	1.68

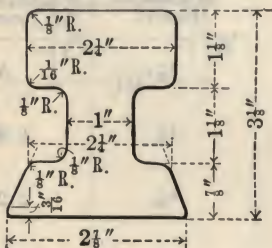


# Rack Rails

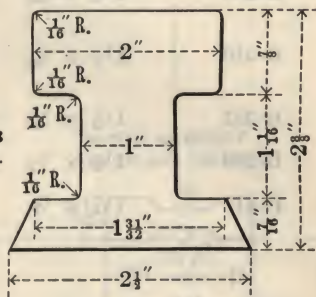
**\*R-95**  
34.6 lbs.



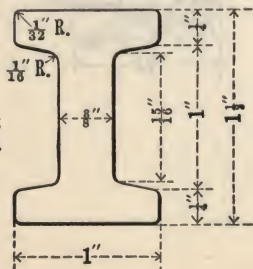
**R-100**  
20.0 lbs.



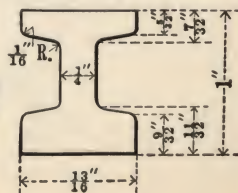
**R-103**  
12.5 lbs.



**R-115**  
3.04 lbs.



**\*R-120**  
1.81 lbs.



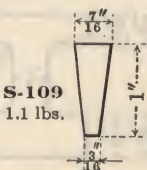
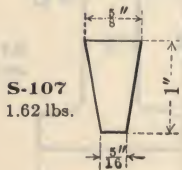
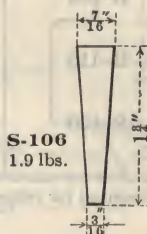
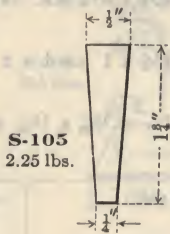
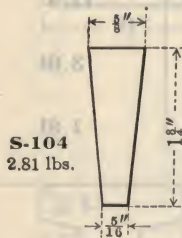
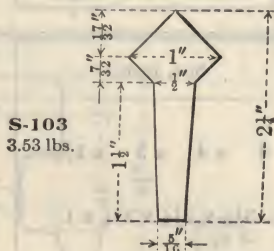
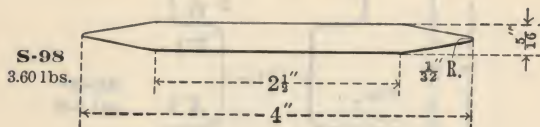
\*Inserted for reference only.

Rack Rails

Section Index	Size, Inches	Weight per Foot, Pounds
*R-95	4 x 4 x 3 x $1\frac{3}{8}$	34.6
R-100	$3\frac{1}{8}$ x $2\frac{7}{8}$ x $2\frac{1}{4}$ x 1	20.0
R-103	$2\frac{3}{8}$ x $2\frac{1}{2}$ x 2 x 1	12.5
R-115	$1\frac{1}{2}$ x 1 x 1 x $\frac{3}{8}$	3.04
*R-120	1 x $\frac{13}{16}$ x $\frac{13}{16}$ x $\frac{1}{4}$	1.81

\*Inserted for reference only.

# Screen Bars



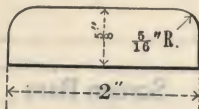


Screen Bars

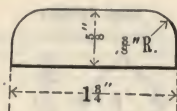
Section Index	Size, Inches	Weight per Foot, Pounds
S- 98	4 x $\frac{5}{16}$	3.60
S-103	$2\frac{1}{4}$ x 1 x $\frac{5}{16}$	3.53
S-104	$1\frac{3}{4}$ x $\frac{5}{8}$ x $\frac{5}{16}$	2.81
S-105	$1\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$	2.25
S-106	$1\frac{3}{4}$ x $\frac{7}{16}$ x $\frac{3}{16}$	1.90
S-107	1 x $\frac{5}{8}$ x $\frac{5}{16}$	1.62
S-108	1 x $\frac{1}{2}$ x $\frac{1}{4}$	1.30
S-109	1 x $\frac{7}{16}$ x $\frac{3}{16}$	1.10

# Cylinder Lag

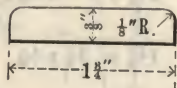
**V-20**  
4.27 lbs.



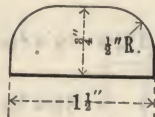
**V-22**  
3.75 lbs.



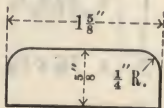
**V-23**  
2.21 lbs.



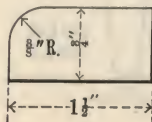
**V-24**  
3.83 lbs.



**V-25**  
3.36 lbs.



**V-26**  
3.72 lbs.

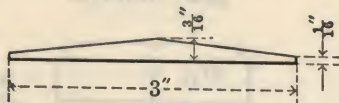


Cylinder Lag

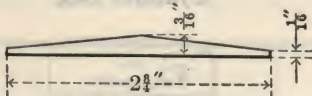
Section Index	Size, Inches	Weight per Foot, Pounds
V-20	2 x $\frac{5}{8}$	4.27
V-22	$1\frac{3}{4}$ x $\frac{5}{8}$	3.75
V-23	$1\frac{3}{4}$ x $\frac{3}{8}$	2.21
V-24	$1\frac{1}{2}$ x $\frac{3}{4}$	3.83
V-25	$1\frac{5}{8}$ x $\frac{5}{8}$	3.36
V-26	$1\frac{1}{2}$ x $\frac{3}{4}$	3.72

# Hoe Point

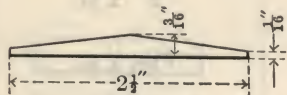
**V-224**  
1.28 lbs.



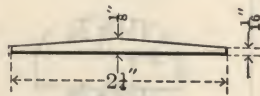
**V-226**  
1.17 lbs.



**V-228**  
1.07 lbs.

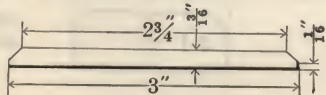


**V-230**  
0.73 lbs.

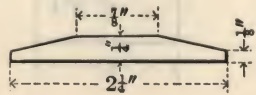


# Bevel Edge

**V-215**  
1.85 lbs.



**V-220**  
1.63 lbs.





## Hoe Point

Section Index	Size, Inches	Weight per Foot, Pounds
V-224	3 x $\frac{3}{16}$ x $\frac{1}{16}$	1.28
V-226	$2\frac{3}{4}$ x $\frac{3}{16}$ x $\frac{1}{16}$	1.17
V-228	$2\frac{1}{2}$ x $\frac{3}{16}$ x $\frac{1}{16}$	1.07
V-230	$2\frac{1}{4}$ x $\frac{1}{8}$ x $\frac{1}{16}$	.73

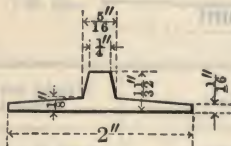
## Bevel Edge

Section Index	Size, Inches	Weight per Foot, Pounds
V-215	3 x $\frac{3}{16}$ x $\frac{1}{16}$	1.85
V-220	$2\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{8}$	1.63

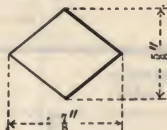
# Heater Band

# Diamond Harrow Tooth

**V-235**  
0.88 lbs.



**V-240**  
0.95 lbs.

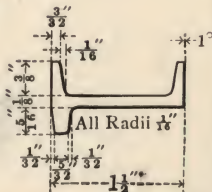


# Sash Bar

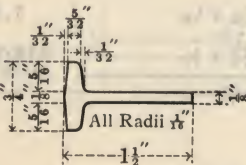
**\*V-249**  
1.25 lbs.



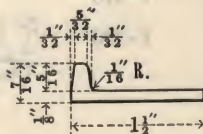
**\*V-251**  
1.19 lbs.



**\*V-252**  
1.05 lbs.



**\*V-253**  
0.86 lbs.



\*Inserted for reference only.

### Heater Band

Section Index	Size, Inches	Weight per Foot, Pounds
V-235	2 x $1\frac{1}{32}$	.88

### Diamond Harrow Tooth

Section Index	Size, Inches	Weight per Foot, Pounds
V-240	$\frac{7}{8}$ x $\frac{5}{8}$	.95

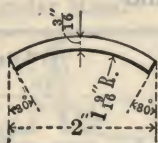
### Sash Bars

Section Index	Size, Inches	Weight per Foot, Pounds
*V-249	$1\frac{1}{2}$ x $1\frac{5}{16}$ x $\frac{1}{8}$	1.25
*V-251	$1\frac{1}{2}$ x $1\frac{3}{16}$ x $\frac{1}{2}$ x $\frac{1}{8}$	1.19
*V-252	$1\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{1}{8}$	1.05
*V-253	$1\frac{1}{2}$ x $\frac{7}{16}$ x $\frac{1}{2}$	.86

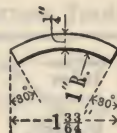
\*Inserted for reference only.

# Curved Sections

**V-258**  
1.26 lbs.

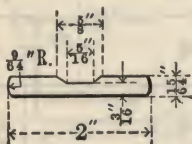


**V-260**  
1.28 lbs.



# Can Ring Sections

**V-295**  
1.50 lbs.

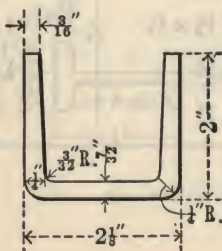


**V-300**  
1.10 lbs.

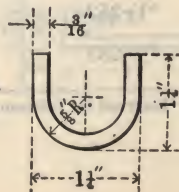


# U Bars

**U-3**  
4.25 lbs.



**U-5**  
1.86 lbs.





### Curved Sections

Section Index	Size, Inches	Weight per Foot, Pounds
V-258	2 x $\frac{3}{16}$ x $1\frac{9}{16}$ Rad.	1.26
V-260	$1\frac{3}{64}$ x $\frac{1}{4}$ x 1 Rad.	1.28

### Can Ring Sections

Section Index	Size, Inches	Weight per Foot, Pounds
V-295	2 x $\frac{15}{64}$	1.50
V-300	$1\frac{1}{2}$ x $\frac{15}{64}$	1.10

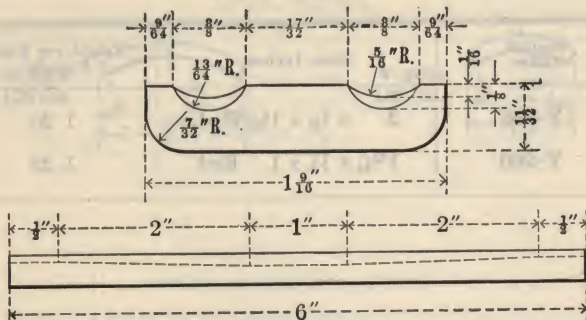
### U Bars

Section Index	Size, Inches	Weight per Foot, Pounds
U-3	$2\frac{1}{8}$ x 2 x $\frac{7}{32}$	4.25
U-5	$1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{3}{16}$	1.86

# Guy Clamps

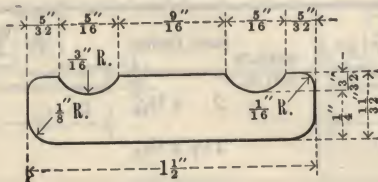
**V-305**

1.60 lbs.



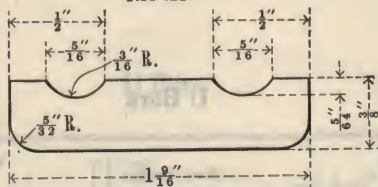
**V-306**

1.65 lbs.



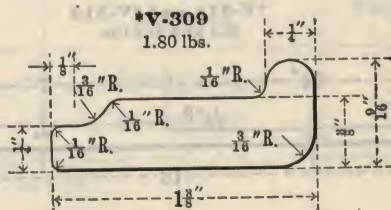
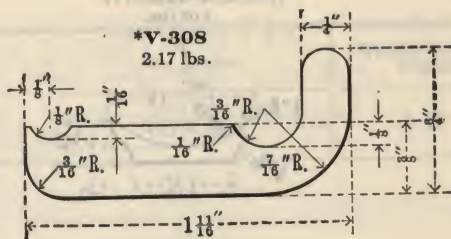
**V-307**

1.85 lbs.



Section Index	Size, Inches	Weight per Foot, Pounds
V-305	$1\frac{9}{16} \times 1\frac{1}{32}$	1.60
V-306	$1\frac{1}{2} \times 1\frac{1}{32}$	1.65
V-307	$1\frac{9}{16} \times \frac{3}{8}$	1.85

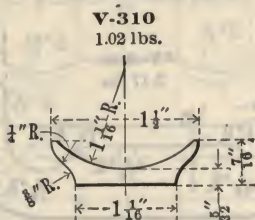
# Suspension Clamps



Section Index	Size, Inches	Weight per Foot, Pounds
*V-308	$1\frac{11}{16} \times \frac{3}{4} \times \frac{3}{8}$	2.17
*V-309	$1\frac{3}{8} \times \frac{9}{16} \times \frac{3}{8}$	1.80

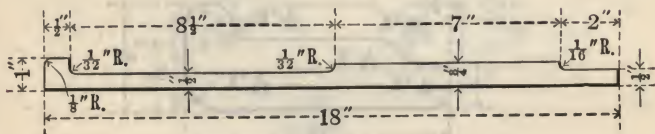
\*These sections have been inserted for reference only.

### Washer Section



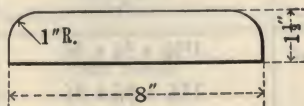
### Switch Plates

**\*V-311 and \*V-312**  
45.1 and 37.4 lbs.



### Follower Plate

**V-350**  
39.4 lbs.



\*These sections have been inserted for reference only.



### Washer Section

Section Index	Size, Inches	Weight per Foot, Pounds
V-310	$1\frac{1}{2} \times \frac{7}{16}$	1.02

### Switch Plates

Section Index	Size, Inches	Weight per Foot, Pounds
*V-311	$18 \times \frac{5}{8} \& \frac{7}{8}$	45.1
*V-312	$18 \times \frac{1}{2} \& \frac{3}{4}$	37.4

### Follower Plate

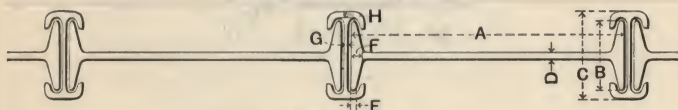
Section Index	Size, Inches	Weight per Foot, Pounds
V-350	$8 \times 1\frac{1}{2}$	39.4

\*These sections have been inserted for reference only.

# J & L Sheet Piling

Under Patent Dated October 13, 1908

## Weights and Dimensions



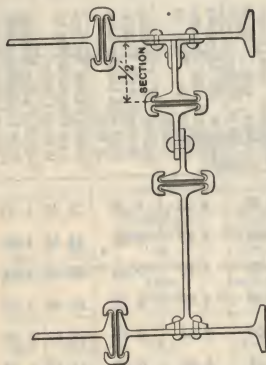
Section Index	Size, Inches	Weight Per Sq. Ft., Pounds	A	B	C	D	E	F	G	H
000	12 x 4¼	32.00	12	2.90	4¼	0.335	0.35	0.75	0.21	0.56
00	12 x 4¼	33.50	12	2.94	4¼	0.375	0.35	0.75	0.21	0.56
0	12 x 4¼	35.00	12	2.94	4¼	0.415	0.35	0.75	0.21	0.56
1	12 x 5	35.00	12	3.94	5	0.34	0.35	0.65	0.21	0.44
2	12 x 5	36.25	12	3.94	5	0.38	0.35	0.65	0.21	0.44
3	15 x 6	37.20	15	4.75	6	0.38	0.37	0.74	0.23	0.49
4	15 x 6	39.75	15	4.75	6	0.44	0.37	0.74	0.23	0.49
5	15 x 6	42.25	15	4.75	6	0.50	0.37	0.74	0.23	0.49

Illustrated Catalogue mailed upon application.

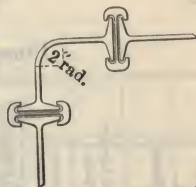
## J & L Sheet Piling

### Standard Corner Pieces and Special Connections

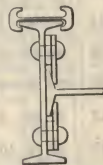
Special Fabricated Corner and Connection.  $\frac{1}{2}$  Section attached to Web of Another Section by Means of Angles and Rivets.



Section Employed to Straighten Wall when Toe of Section has been Thrown Forward or Back from a Vertical Line.



Standard Corner with Web Bent 90° with a 2 inch Radius

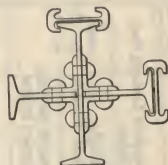


Special Section for Cross Wall Connection

Special Corner and Connection. Flange of One I-Beam Riveted Direct to Web of Another Section.



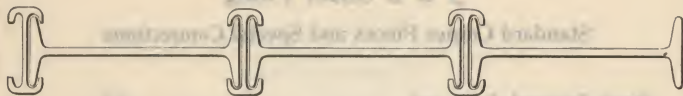
120° Y Pile



90° Cross

The above are corner pieces and special connections which are ordinarily used, but if unusual conditions or special designs require other details, this piling can readily be adapted to meet such situations.

## J &amp; L Sheet Piling



## Properties of Sheet Piling Beams

Section Index	Depth of Beam, Inches	Weight per Linear Foot, Pounds	Area of Section, Square Inches	Thickness of Web, Inches	Width of Flange, Inches	Moment of Inertia Neutral Axis Perpendicular to Web at Center	Moment of Inertia Neutral Axis Coincident with Center Line of Web	Radius of Gyration Neutral Axis Perpendicular to Web at Center	Radius of Gyration Neutral Axis Coincident with Center Line of Web	Section Factor Neutral Axis Perpendicular to Web at Center	Section Factor Neutral Axis Coincident with Center Line of Web
B-315	12	23.26	6.84	0.34	2.90	140.50	1.92	4.53	0.53	23.42	1.32
B-314	12	24.90	7.32	0.38	2.94	146.27	2.01	4.47	0.52	24.38	1.37
B-313	12	26.37	7.76	0.42	2.94	150.47	2.04	4.40	0.51	25.08	1.38
B-310	12	26.30	7.72	0.34	3.94	167.76	4.43	4.67	0.76	27.96	2.25
B-309	12	27.60	8.10	0.38	3.94	172.10	4.56	4.61	0.75	28.68	2.30
B-302	15	35.75	10.50	0.38	4.75	358.16	8.52	5.84	0.90	47.75	3.59
B-301	15	39.00	11.44	0.44	4.75	375.03	8.91	5.71	0.88	50.00	3.70
B-300	15	42.25	12.37	0.50	4.75	391.92	9.31	5.62	0.87	52.25	3.82

## Properties of Locking Bars

Section Index	Depth of Locking Bar, Inches	Weight per Linear Foot, Pounds	Area of Section, Square Inches	Thickness of Web, Inches	Moment of Inertia Neutral Axis Perpendicular to Web at Center	Moment of Inertia Neutral Axis Coincident with Center Line of Web	Radius of Gyration Neutral Axis Perpendicular to Web at Center	Radius of Gyration Neutral Axis Coincident with Center Line of Web	Section Factor Neutral Axis Perpendicular to Web at Center	Section Factor Neutral Axis Coincident with Center Line of Web
B-322	4 1/4	10.3	3.00	0.21	7.50	0.87	1.53	0.54	3.53	0.54
B-321	5	9.75	2.87	0.21	10.50	0.64	1.91	0.47	4.20	0.64
B-316	6	12.25	3.61	0.23	18.42	1.11	2.26	0.55	6.14	1.03



## J & L Sheet Piling

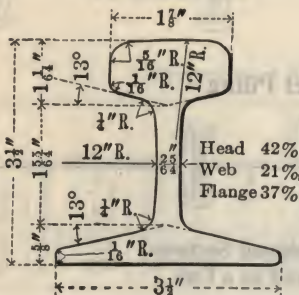


### Properties of Combined Sections Joints Considered as a Unit

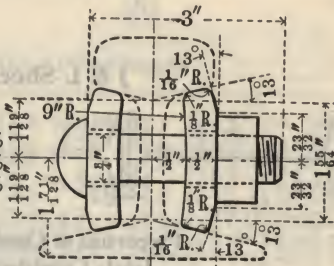
Section Index	Size, Inches	Weight per Square Ft. of Assembled Area, Pounds	Total Sectional Area Assembled Section, Sq. Inches	Width of Joint Overall, Inches	Moment of Inertia Neutral Axis Coincident with Center Line of Web	Radius of Gyration Neutral Axis Coincident with Center Line of Web	Section Factor Neutral Axis Coincident with Center Line of Web
000	12x4¼	32.0	9.84	4¼	9.42	0.99	4.85
00	12x4¼	33.5	10.32	4¼	9.52	0.96	4.90
0	12x4¼	35.0	10.76	4¼	9.54	0.94	4.91
1	12x5	35.0	10.59	5	14.93	1.19	6.45
2	12x5	36.25	10.97	5	15.06	1.17	6.50
3	15x6	37.20	14.11	5	26.94	1.38	9.73
4	15x6	39.75	15.05	5	27.33	1.35	9.84
5	15x6	42.25	15.98	5	27.73	1.31	9.96

## Steel Rails and Connections

**Section R-40**  
40 pounds per yard



**Splice Bar Section S-40**  
For 40-pound rail

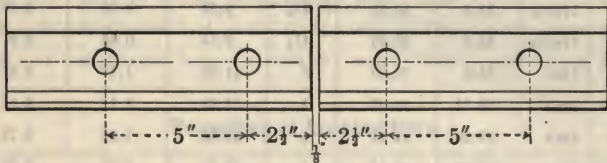


62.86 gross tons of rails per mile of single track.  
84 feet of single track per gross ton of rails.

## Punching of Rail

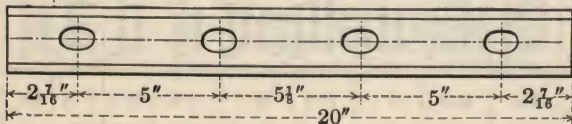
Center of web.

Diameter of holes,  $\frac{7}{8}$  inch.



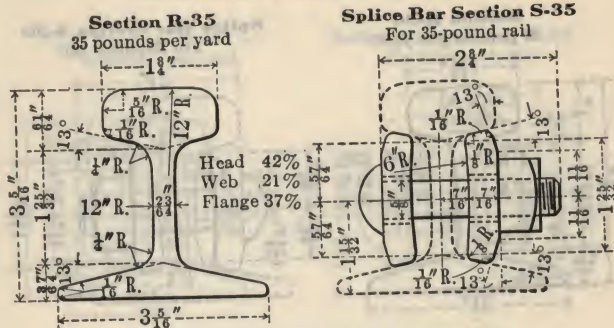
### Punching of Splice Bar

Elliptical holes,  $1\frac{1}{8} \times 1\frac{1}{8}$  inch.



Approximate weight of complete joint 14.90 pounds.  
Bolts  $3 \times \frac{3}{4}$  inch, square nut. Spike  $5 \times \frac{9}{16}$  or  $5 \times \frac{1}{2}$  inch.

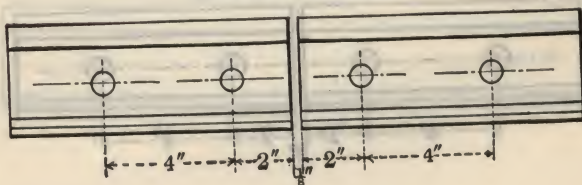
## Steel Rails and Connections



55 gross tons of rails per mile of single track.  
96 feet of single track per gross ton of rails.

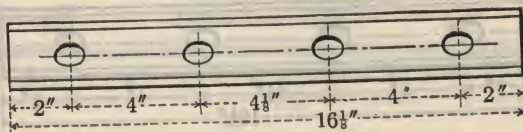
### Punching of Rail

Center of web.  
Diameter of holes  $\frac{1}{4}$  inch.



### Punching of Splice Bar

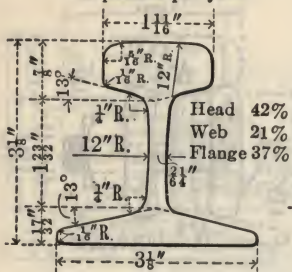
Elliptical holes,  $\frac{1}{2} \times \frac{1}{8}$  inch.



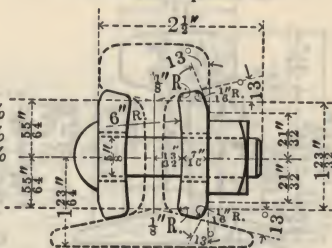
Approximate weight of complete joint 9.42 pounds.  
Bolts  $2\frac{1}{4} \times \frac{1}{2}$  inch, square nut. Spikes  $4\frac{1}{2} \times \frac{1}{2}$  inch.

## Steel Rails and Connections

**Section R-30**  
30 pounds per yard



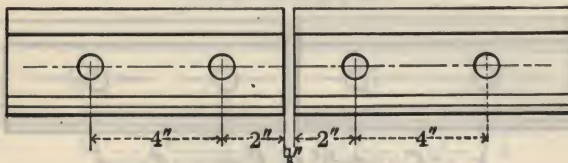
**Splice Bar Section S-30**  
For 30-pound rail



47.14 gross tons of rails per mile of single track.  
112 feet of single track per gross ton of rails.

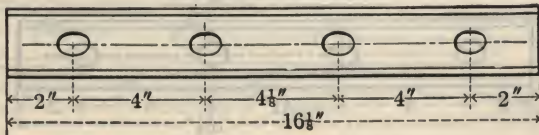
### Punching of Rail

Center of web.  
Diameter of holes  $\frac{1}{4}$  inch.



### Punching of Splice Bar

Elliptical holes,  $\frac{1}{2} \times \frac{1}{4}$  inch.

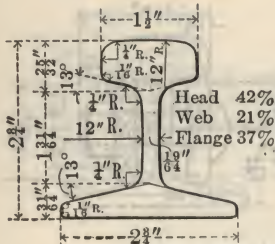


Approximate weight of complete joint 9.26 pounds.  
Bolts  $2\frac{1}{2} \times \frac{3}{4}$  inch, square nut. Spikes  $4 \times \frac{1}{2}$  inch.

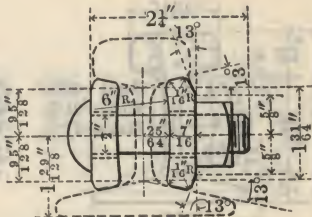


## Steel Rails and Connections

**Section R-25**  
25 pounds per yard



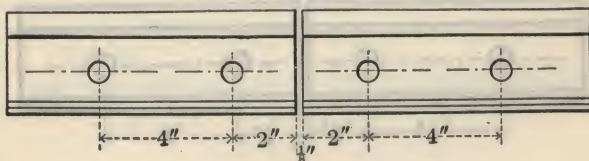
**Splice Bar Section S-25**  
For 25-pound rail



39.29 gross tons per mile of single track.  
134.4 feet of single track per gross ton of rails.

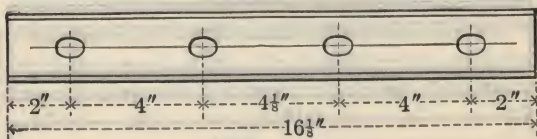
### Punching of Rail

Center of web.  
Diameter of holes  $\frac{5}{8}$  inch.



### Punching of Splice Bar

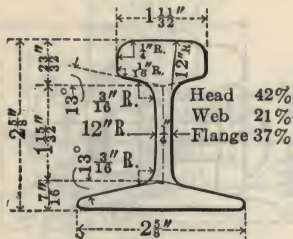
Elliptical holes,  $\frac{3}{4} \times 1 \frac{5}{16}$  inch.



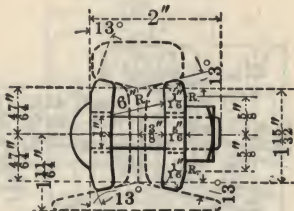
Approximate weight of complete joint 8.35 pounds.  
Bolts  $2 \frac{1}{4} \times 1 \frac{1}{2}$  inch, square nut. Spikes  $4 \times 1 \frac{1}{2}$  inch.

## Steel Rails and Connections

**Section R-20**  
20 pounds per yard



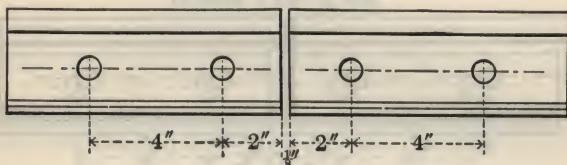
**Splice Bar Section S-20**  
For 20-pound rail



31.43 gross tons per mile of single track.  
168 feet of single track per gross ton of rails.

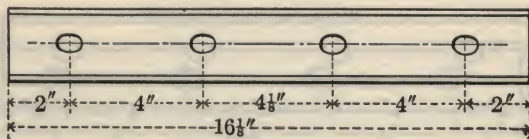
### Punching of Rail

Center of web.  
Diameter of holes  $\frac{5}{8}$  inch.



### Punching of Splice Bar

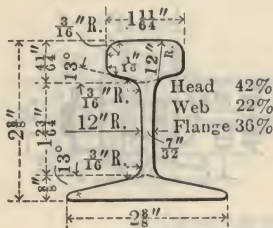
Elliptical holes,  $\frac{3}{4} \times \frac{1}{8}$  inch.



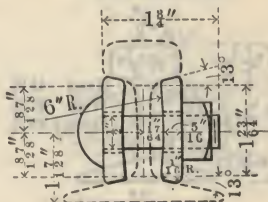
Approximate weight of complete joint 5.77 pounds.  
Bolts  $2 \times \frac{1}{2}$  inch, square nut. Spikes  $3 \frac{1}{2} \times \frac{1}{2}$  inch.

## Steel Rails and Connections

**Section R-16**  
16 pounds per yard



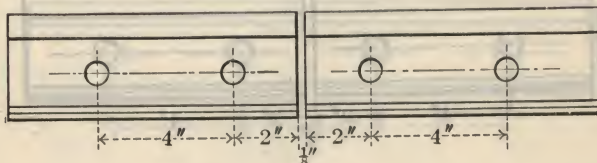
**Splice Bar Section S-16**  
For 16-pound rail



25.14 gross tons of rails per mile of single track.  
210 feet of single track per gross ton of rails.

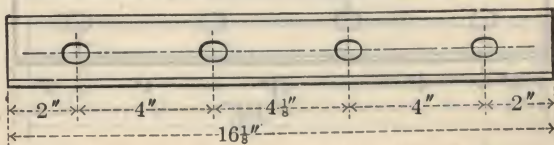
### Punching of Rail

Center of web,  
Diameter of holes,  $\frac{5}{8}$  inch.



### Punching of Splice Bar

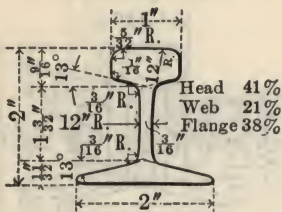
Elliptical holes,  $\frac{3}{4} \times \frac{1}{8}$  inch



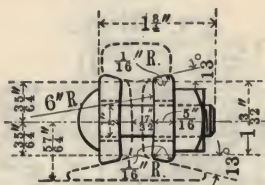
Approximate weight of complete joint 5.22 pounds.  
Bolts  $1\frac{3}{4} \times \frac{1}{2}$  inch, square nut. Spikes  $3\frac{1}{2} \times \frac{3}{8}$  inch.

## Steel Rails and Connections

**Section R-12**  
12 pounds per yard



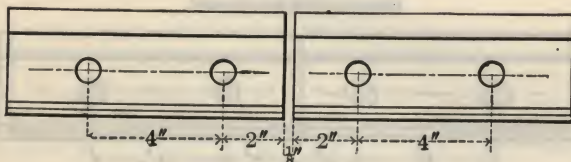
**Splice Bar Section S-12**  
For 12-pound rail



18.86 gross tons of rails per mile of single track  
280 feet of single track per gross ton of rails.

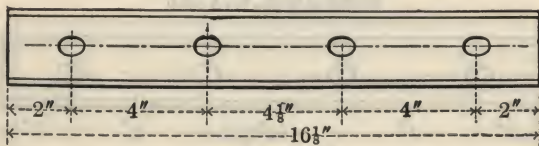
### Punching of Rail

Center of web.  
Diameter of holes  $\frac{5}{8}$  inch.



### Punching of Splice Bar

Elliptical holes,  $\frac{3}{4} \times \frac{1}{8}$  inch.



Approximate weight of complete joint 4.31 pounds.  
Bolts  $1\frac{3}{4} \times \frac{1}{2}$  inch, square nut. Spikes  $3 \times \frac{3}{8}$  inch.

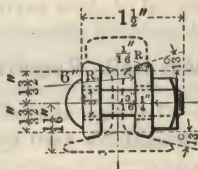


## Steel Rails and Connections

**Section R-8**  
8 pounds per yard



**Splice Bar Section S-8**  
For 8-pound rail



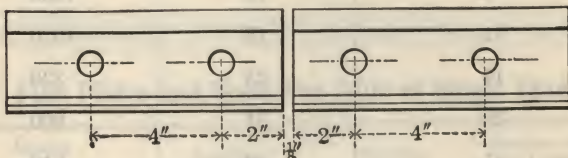
12.57 gross tons per mile of single track.

420 feet of single track per gross ton of rails.

### Punching of Rail

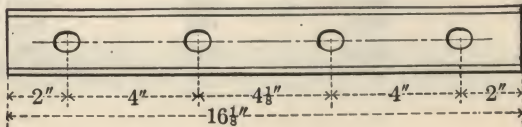
Center of web.

Diameter of holes  $\frac{1}{2}$  inch.



### Punching of Splice Bar

Elliptical holes,  $\frac{1}{8} \times \frac{1}{16}$  inch.



Approximate weight of complete joint 3.16 pounds.

Bolts  $1\frac{1}{2} \times \frac{3}{8}$  inch, square nut. Spikes  $2\frac{1}{2} \times \frac{1}{8}$  inch.

## Steel Rails Required for One Mile of Track

**RULE.**—To find number of gross tons of rail to the mile, divide the weight per yard by 7 and multiply by 11.

**EXAMPLE.**—For 70-pound rail:  $70 \div 7 = 10 \times 11 = 110$  tons.

The number of tons of 2,000 pounds required per mile is very nearly  $1\frac{3}{4}$  times the weight per yard.

Weight of Rail, per Yard, Pounds	TONS PER MILE, 2,240 POUNDS	
	Tons	Pounds
8	12	1280
12	18	1920
16	25	320
20	31	960
25	39	640
30	47	320
35	55	....
40	62	1920

### Splice Joints for One Ton of Rails

This table is based on standard practice for lengths, viz.: 90 per cent in 30 feet, and balance, or 10 per cent, to be not less than 24 feet. (Plain joints for 8 to 40 pounds made by Jones & Laughlin Steel Company.)

Weight of Rail, per Yard, Pounds	Number of Joints
8	28.00
12	19.04
16	14.28
20	11.42
25	9.14
30	7.62
35	6.53
40	5.71

### Fish Plates and Bolts Per Mile of Single Track

Length of Rail	Number Fish Plates	Number Bolts	Number of Rails or Complete Joints
24 Feet	880	1760	440
25 Feet	844	1688	422
26 Feet	812	1624	406
27 Feet	782	1564	391
28 Feet	754	1508	377
30 Feet	704	1408	352
30 Feet 10% Shorts }	710	1420	355

## STANDARD SQUARE SPIKES

### R. R. SPIKE



### BOAT SPIKE



### NAIL HEAD SPIKE



### BARGE SPIKE



### BUTTON HEAD SPIKE



NOTE.—We invite inquiries concerning spikes to special specifications.



### Standard Railroad Spikes

Size, Inches	Average Number per Keg 200 Pounds	QUANTITY OF SPIKES PER MILE OF SINGLE TRACK, TIES 2 FEET CENTER TO CENTER, 4 SPIKES PER TIE	
		Pounds	Kegs
6½ x 5/8	237	8910	44½
6 x 5/8	253	8348	41¾
5½ x 5/8	265	7955	39¾
5 x 5/8	301	7020	35½
6½ x 9/16	253	8348	41¾
6 x 9/16	297	7110	35½
5½ x 9/16	360	5920	29½
5 x 9/16	374	5649	28¼
4½ x 9/16	418	5054	25¼
5 x 1½	465	4544	22¾
4½ x 1½	538	3928	19¾
4 x 1½	605	3492	17½
3½ x 1½	663	3187	16
3 x 1½	758	2787	14
4½ x 7/16	645	3276	16½
4 x 7/16	746	2836	14½
3½ x 7/16	860	2457	12¾
3 x 7/16	976	2164	10¾
4½ x 3/8	766	2758	13¾
4 x 3/8	1002	2108	10½
3½ x 3/8	1198	1764	9
3 x 3/8	1367	1545	7¾
2½ x 3/8	1650	1280	6½
2½ x 5/16	2129	992	5

We also furnish Goldie Point Railroad Spikes.

### Boat, Barge, Button Head and Nail Head Spikes

Approximate Number per Keg of 200 Pounds

Inches Square	LENGTH OF SPIKE—INCHES											
	3	4	5	6	7	8	9	10	11	12	14	16
5/8	...	...	...	...	...	260	240	220	205	190	175	160
1½	...	...	...	450	375	335	300	275	260	240	205	...
7/16	...	...	...	600	590	510	400	360	320	230	...	...
3/8	1320	1140	940	800	650	600	525	475	...	...	...	...
5/16	1660	1360	1230	1175	990	880	785	710	...	...	...	...
¼	3000	2375	2050	1825	1565	1375	...	...	...	...	...	...

NOTE.—We invite inquiries concerning spikes to special specifications.

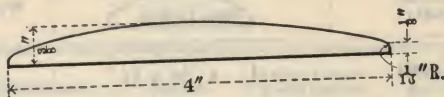
Oval Edge or Reach Plate

Section Index	Size, Inches	Weight per Foot, Pounds
V-103	$1\frac{1}{4}$ x $\frac{3}{8}$	1.50
V-104	$1\frac{1}{4}$ x $\frac{5}{16}$	1.24
V-105	$1\frac{1}{4}$ x $\frac{9}{32}$	1.11
V-111	$1\frac{1}{8}$ x $\frac{5}{16}$	1.15
V-112	$1\frac{1}{8}$ x $\frac{1}{4}$	.91
V-113	$1\frac{1}{8}$ x $\frac{3}{16}$	.67
V-114	$1\frac{1}{8}$ x $\frac{1}{8}$	.43
V-119	1 x $\frac{5}{16}$	1.02
V-120	1 x $\frac{1}{4}$	.81
V-121	1 x $\frac{3}{16}$	.60
V-122	1 x $\frac{1}{8}$	.39
V-127	$\frac{7}{8}$ x $\frac{5}{16}$	.91
V-128	$\frac{7}{8}$ x $\frac{1}{4}$	.72
V-129	$\frac{7}{8}$ x $\frac{3}{16}$	.53
V-130	$\frac{7}{8}$ x $\frac{1}{8}$	.34
V-135	$\frac{27}{32}$ x $\frac{5}{16}$	.86
V-136	$\frac{27}{32}$ x $\frac{1}{4}$	.68
V-137	$\frac{27}{32}$ x $\frac{3}{16}$	.50
V-138	$\frac{27}{32}$ x $\frac{1}{8}$	.32
V-143	$\frac{3}{4}$ x $\frac{5}{16}$	.76
V-144	$\frac{3}{4}$ x $\frac{1}{4}$	.60
V-145	$\frac{3}{4}$ x $\frac{3}{16}$	.44
V-146	$\frac{3}{4}$ x $\frac{1}{8}$	.28
V-151	$\frac{23}{32}$ x $\frac{5}{16}$	.72
V-152	$\frac{23}{32}$ x $\frac{1}{4}$	.57
V-153	$\frac{23}{32}$ x $\frac{3}{16}$	.42
V-154	$\frac{23}{32}$ x $\frac{1}{8}$	.27

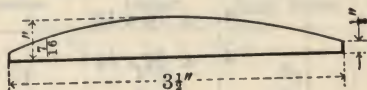
NOTE.—Sections V-103-4-5 rolled with  $\frac{1}{4}$ -inch radius. All other sections,  $\frac{3}{16}$ -inch radius.

# Special Half Ovals

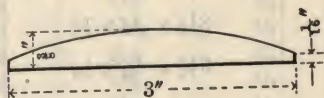
**V-164 to  
V-166**  
5.13, 4.55 and  
3.97 lbs.



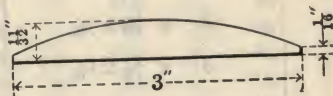
**V-174 and  
V-175**  
4.5 and 4.0 lbs.



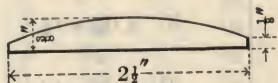
**V-180 and  
V-181**  
3.21 and 2.79  
lbs.



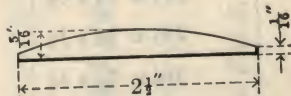
**V-182**  
2.57 lbs.



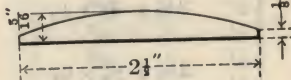
**V-186 to  
V-189**  
4.0, 3.21, 2.86  
and 2.49 lbs.



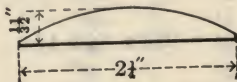
**V-190**  
1.97 lbs.



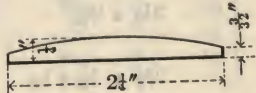
**V-191**  
2.13 lbs.



**V-192**  
1.85 lbs.



**V-193 and  
V-194**  
1.77 and 1.52  
lbs.



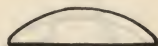
NOTE—For sizes not shown inquiries may be submitted.

## Special Half Ovals

Section Index	Size, Inches	Weight per Foot, Pounds
V-164	4 x $\frac{1}{2}$ x $\frac{1}{8}$	5.13
V-165	4 x $\frac{7}{16}$ x $\frac{1}{8}$	4.55
V-166	4 x $\frac{3}{8}$ x $\frac{1}{8}$	3.97
V-174	$3\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{8}$	4.50
V-175	$3\frac{1}{2}$ x $\frac{7}{16}$ x $\frac{1}{8}$	4.00
V-180	3 x $\frac{7}{16}$ x $\frac{1}{16}$	3.21
V-181	3 x $\frac{3}{8}$ x $\frac{1}{16}$	2.79
V-182	3 x $1\frac{1}{32}$ x $\frac{1}{16}$	2.57
V-186	$2\frac{1}{2}$ x $\frac{5}{8}$ x $\frac{1}{8}$	4.00
V-187	$2\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{8}$	3.21
V-188	$2\frac{1}{2}$ x $\frac{7}{16}$ x $\frac{1}{8}$	2.86
V-189	$2\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{8}$	2.49
V-190	$2\frac{1}{2}$ x $\frac{5}{16}$ x $\frac{1}{16}$	1.97
V-191	$2\frac{1}{2}$ x $\frac{5}{16}$ x $\frac{1}{8}$	2.13
V-192	$2\frac{1}{4}$ x $1\frac{1}{32}$	1.85
V-193	$2\frac{1}{4}$ x $\frac{5}{16}$ x $\frac{1}{16}$	1.77
V-194	$2\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{3}{32}$	1.52



# Half Ovals



Width, Inches	Thickness, Inches	Radius, Inches	Approximate Thickness at Edge, Inches	Weight per Foot, Pounds
2	$\frac{1}{2}$	$1\frac{3}{8}$	$\frac{3}{64}$	2.49
2	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{3}{64}$	2.16
2	$\frac{3}{8}$	$1\frac{11}{16}$	$\frac{3}{64}$	1.84
2	$\frac{5}{16}$	$2\frac{1}{16}$	$\frac{3}{64}$	1.56
$1\frac{3}{4}$	$\frac{7}{16}$	$1\frac{3}{16}$	$\frac{3}{64}$	1.90
$1\frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{16}$	$\frac{1}{32}$	1.42
$1\frac{1}{2}$	$\frac{5}{16}$	$1\frac{3}{16}$	$\frac{1}{32}$	1.16
$1\frac{1}{2}$	$\frac{1}{4}$	$1\frac{1}{2}$	$\frac{3}{64}$	.943
$1\frac{1}{4}$	$\frac{5}{16}$	$\frac{7}{8}$	$\frac{1}{32}$	.981
$1\frac{1}{4}$	$\frac{1}{4}$	1	$\frac{1}{32}$	.810
$1\frac{1}{8}$	$\frac{9}{32}$	$25\frac{3}{32}$	$\frac{1}{32}$	.793
$1\frac{1}{8}$	$\frac{1}{4}$	$27\frac{3}{32}$	$\frac{1}{32}$	.720
1	$\frac{1}{4}$	$45\frac{3}{64}$	$\frac{1}{32}$	.630
$\frac{7}{8}$	$\frac{1}{4}$	$9\frac{1}{16}$	$\frac{1}{32}$	.544
$\frac{7}{8}$	$\frac{7}{32}$	$5\frac{1}{8}$	$\frac{1}{32}$	.485
$\frac{3}{4}$	$\frac{7}{32}$	$31\frac{1}{64}$	$\frac{1}{32}$	.414
$\frac{3}{4}$	$\frac{3}{16}$	$9\frac{1}{16}$	$\frac{1}{32}$	.364
$1\frac{1}{16}$	$\frac{7}{32}$	$13\frac{1}{32}$	$\frac{1}{32}$	.380
$1\frac{1}{16}$	$\frac{3}{16}$	$29\frac{1}{64}$	$\frac{1}{32}$	.321
$\frac{5}{8}$	$\frac{3}{16}$	$27\frac{1}{64}$	$\frac{1}{32}$	.308
$\frac{5}{8}$	$\frac{5}{32}$	$\frac{1}{2}$	$\frac{1}{32}$	.258
$\frac{5}{8}$	$\frac{1}{8}$	$19\frac{1}{32}$	$\frac{1}{32}$	.200
$\frac{9}{16}$	$\frac{9}{64}$	$29\frac{1}{64}$	$\frac{1}{32}$	.210
$\frac{1}{2}$	$\frac{1}{8}$	$27\frac{1}{64}$	$\frac{1}{32}$	.168
$\frac{7}{16}$	$\frac{7}{64}$	$25\frac{1}{64}$	$\frac{1}{32}$	.131
$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{32}$	.126
$\frac{3}{8}$	$\frac{3}{32}$	$23\frac{1}{64}$	$\frac{1}{32}$	.098

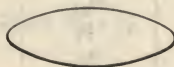
NOTE.—For half ovals over 2 inches in width see Special Half Ovals on pages 133 and 134.

# Sharp Ovals



Width, Inches	Thickness, Inches	Radius, Inches	Weight per Foot, Pounds
$\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16}$	.297
$\frac{9}{16}$	$\frac{9}{32}$	$\frac{11}{32}$	.376
$\frac{19}{32}$	$\frac{3}{8}$	$\frac{21}{64}$	.542
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{25}{64}$	.465
$\frac{3}{4}$	$\frac{5}{16}$	$\frac{17}{32}$	.551
$\frac{3}{4}$	$\frac{3}{8}$	$\frac{15}{32}$	.669
$\frac{7}{8}$	$\frac{5}{16}$	$\frac{11}{16}$	.637
$\frac{7}{8}$	$\frac{3}{8}$	$\frac{39}{64}$	.800
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{35}{64}$	.910
1	$\frac{7}{16}$	$\frac{11}{16}$	1.029
1	$\frac{1}{2}$	$\frac{5}{8}$	1.188
$1\frac{1}{8}$	$\frac{9}{16}$	$\frac{45}{64}$	1.504
$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{25}{32}$	1.856
$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{15}{16}$	2.673

# Blunt Ovals



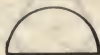
Width, Inches	Thickness, Inches	Long Radius, Inches	Short Radius, Inches	Weight per Foot, Pounds
$\frac{5}{8}$	$\frac{11}{32}$	$\frac{7}{16}$	$\frac{1}{16}$	.557
$\frac{7}{8}$	$\frac{5}{16}$	$\frac{13}{16}$	$\frac{3}{64}$	.677
$\frac{7}{8}$	$\frac{7}{16}$	$\frac{11}{16}$	$\frac{1}{8}$	1.020

# Hexagons



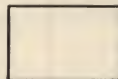
Width "a" across Flats, Inches	Weight per Foot, Pounds	Width "a" across Flats, Inches	Weight per Foot, Pounds
$\frac{5}{16}$	.288	$1\frac{3}{32}$	3.522
$\frac{11}{32}$	.348	$1\frac{1}{8}$	3.727
$\frac{3}{8}$	.414	$1\frac{5}{32}$	3.937
$\frac{13}{32}$	.486	$1\frac{3}{16}$	4.152
$\frac{7}{16}$	.564	$1\frac{7}{32}$	4.374
$\frac{15}{32}$	.647	$1\frac{1}{4}$	4.601
$\frac{1}{2}$	.736	$1\frac{9}{32}$	4.834
$\frac{17}{32}$	.831	$1\frac{5}{16}$	5.072
$\frac{9}{16}$	.933	$1\frac{11}{32}$	5.317
$\frac{19}{32}$	1.038	$1\frac{3}{8}$	5.567
$\frac{5}{8}$	1.150	$1\frac{13}{32}$	5.823
$\frac{21}{32}$	1.268	$1\frac{7}{16}$	6.085
$\frac{11}{16}$	1.392	$1\frac{15}{32}$	6.352
$\frac{23}{32}$	1.521	$1\frac{1}{2}$	6.625
$\frac{3}{4}$	1.656	$1\frac{9}{16}$	7.189
$\frac{25}{32}$	1.797	$1\frac{5}{8}$	7.775
$\frac{13}{16}$	1.944	$1\frac{11}{16}$	8.385
$\frac{27}{32}$	2.096	$1\frac{3}{4}$	9.018
$\frac{7}{8}$	2.254	$1\frac{13}{16}$	9.673
$\frac{29}{32}$	2.418	$1\frac{7}{8}$	10.352
$\frac{15}{16}$	2.588	$1\frac{15}{16}$	11.053
$\frac{31}{32}$	2.763	2	11.778
1	2.945	$2\frac{1}{16}$	12.525
$1\frac{1}{32}$	3.131	$2\frac{1}{4}$	14.906
$1\frac{1}{16}$	3.324	$2\frac{5}{16}$	15.747

## Half Rounds



Diameter, Inches	Weight per Foot, Pounds	Diameter, Inches	Weight per Foot, Pounds
$\frac{5}{16}$	.131	1	1.335
$\frac{3}{8}$	.188	$1\frac{1}{8}$	1.690
$\frac{7}{16}$	.256	$1\frac{1}{4}$	2.086
$\frac{1}{2}$	.334		
$\frac{9}{16}$	.423	$1\frac{1}{2}$	3.004
$\frac{5}{8}$	.522		
$1\frac{1}{16}$	.631	$1\frac{3}{4}$	4.089
$\frac{3}{4}$	.751		
$\frac{7}{8}$	1.022	2	5.340

## Nut Steel Flats



All sizes from  $2\frac{3}{8}$ " x  $1\frac{1}{16}$ " to  $\frac{9}{16}$ " x  $\frac{9}{32}$ ", inclusive,  
can be furnished. Weights appear  
in tables of Flat Rolled  
Steel, pages 167 to 170  
inclusive.

Sizes which may be obtained in coils:

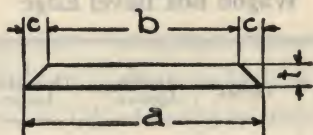
$\frac{1}{2}$ " to  $1\frac{5}{16}$ " wide x  $\frac{1}{4}$ " to  $\frac{1}{2}$ " thick.

Sizes  $\frac{9}{16}$ " x  $2\frac{3}{64}$ " and lighter—220 lb. coils.

Balance of sizes 150 to 300 lb. coils—300 lb. preferred.



Wagon Box Bevel Edge



Section Index	a Inches	b Inches	c Inches Approx.	t Gauges or Inches	Weight per Foot, Pounds
V-27	1 $\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	1.43
V-32	1 $\frac{1}{4}$	$\frac{11}{16}$	$\frac{9}{32}$	$\frac{5}{16}$	1.03
V-33	1 $\frac{1}{4}$	$\frac{13}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	.88
V-34	1 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.70
V-35	1 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	.47
V-36	1 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{5}{32}$	No. 12	.41
V-37	1 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{5}{32}$	No. 13	.36
V-38	1 $\frac{1}{4}$	$\frac{15}{16}$	$\frac{5}{32}$	No. 14	.31
V-43	1 $\frac{1}{8}$	$\frac{13}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.62
V-44	1 $\frac{1}{8}$	$\frac{13}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	.42
V-45	1 $\frac{1}{8}$	$\frac{13}{16}$	$\frac{5}{32}$	No. 12	.36
V-46	1 $\frac{1}{8}$	$\frac{13}{16}$	$\frac{5}{32}$	No. 13	.32
V-47	1 $\frac{1}{8}$	$\frac{13}{16}$	$\frac{5}{32}$	No. 14	.28
V-52	1	$\frac{11}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.54
V-53	1	$\frac{11}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	.36
V-54	1	$\frac{11}{16}$	$\frac{5}{32}$	No. 12	.32
V-55	1	$\frac{11}{16}$	$\frac{5}{32}$	No. 13	.28
V-56	1	$\frac{11}{16}$	$\frac{5}{32}$	No. 14	.24

## Wagon Box Bevel Edge

Section Index	a Inches	b Inches	c Inches Approx.	t Gauges or Inches	Weight, per Foot, Pounds
V-60	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{16}$	$\frac{7}{32}$	.52
V-61	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.46
V-62	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	.31
V-63	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	No. 12	.27
V-64	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	No. 13	.24
V-65	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{5}{32}$	No. 14	.21
V-69	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{3}{16}$	.42
V-70	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{1}{8}$	.28
V-71	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	No. 12	.25
V-72	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	No. 13	.22
V-73	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	No. 14	.19
V-78	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.38
V-79	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	.26
V-80	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{5}{32}$	No. 12	.23
V-81	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{5}{32}$	No. 13	.20
V-82	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{5}{32}$	No. 14	.17
V-88	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.30
V-89	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{1}{8}$	.20
V-90	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	No. 12	.18
V-91	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	No. 13	.16
V-92	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	No. 14	.14

## Rounds

$\frac{3}{16}$ " to 1" advancing by 64ths.

$1\frac{1}{32}$ " to 2" advancing by 32nds.

$2\frac{1}{16}$ " to  $7\frac{1}{2}$ " advancing by 16ths.

Bolt and rivet rounds can also be rolled to various decimal sizes.

## Coiled Rounds

Diameter of Bar, Inches	Weight of Coil, Pounds	Length of Bar, Feet	Diameter of Bar, Inches	Weight of Coil, Pounds	Length of Bar, Feet
$\frac{3}{16}$	6	60	$3\frac{1}{64}$	150 or 300	235 or 470
$\frac{7}{32}$	10	70	$\frac{1}{2}$	150 or 300	224 or 448
$\frac{15}{64}$	12	75	$1\frac{7}{32}$	150 or 300	195 or 390
$\frac{1}{4}$	15	80	$3\frac{5}{64}$	150 or 300	185 or 370
$\frac{9}{32}$	19	80	$\frac{9}{16}$	200 or 400	236 or 472
$\frac{19}{64}$	150	415	$3\frac{9}{64}$	200 or 400	200 or 400
$\frac{5}{16}$	150	570	$\frac{5}{8}$	200 or 400	192 or 384
$2\frac{1}{64}$	150	515	$4\frac{1}{64}$	200 or 400	183 or 366
$1\frac{1}{32}$	150	470	$2\frac{1}{32}$	200 or 400	174 or 348
$2\frac{3}{64}$	150	440	$4\frac{3}{64}$	200 or 400	166 or 332
$\frac{3}{8}$	150 or 300	400 or 800	$1\frac{1}{16}$	200 or 400	159 or 318
$\frac{25}{64}$	150 or 300	366 or 732	$4\frac{5}{64}$	200 or 400	151 or 302
$\frac{13}{32}$	150 or 300	338 or 676	$2\frac{3}{32}$	200 or 400	145 or 290
$\frac{27}{64}$	150 or 300	314 or 628	$4\frac{7}{64}$	200 or 400	139 or 278
$1\frac{5}{32}$	150 or 300	250 or 500	$\frac{3}{4}$	200 or 400	133 or 266

NOTE.—The larger weight coils are preferable for sizes  $\frac{3}{8}$  inch to  $\frac{3}{4}$  inch, inclusive.

# Squares

☐  $\frac{3}{16}$ " to 2" advancing by 64ths. ☐  
☐  $2\frac{1}{8}$ " to 5" advancing by 16ths. ☐

## Maximum Lengths

ROUNDS		SQUARES	
Diameter, Inches	Length, Feet	Size, Inches	Length, Feet
$\frac{3}{16}$ to $\frac{7}{8}$	40	$\frac{3}{16}$ to $\frac{11}{16}$	40
$\frac{15}{16}$ to $2\frac{1}{16}$	60	$\frac{3}{4}$ to 2	60
$2\frac{1}{8}$ to $4\frac{1}{2}$	48	$2\frac{1}{16}$ to $4\frac{15}{16}$	48
$4\frac{9}{16}$ to $5\frac{1}{2}$	46	5	45
$5\frac{9}{16}$	44		
$5\frac{5}{8}$	43		
$5\frac{11}{16}$	42		
$5\frac{3}{4}$	41		
$5\frac{13}{16}$	40		
$5\frac{7}{8}$ to $5\frac{15}{16}$	39		
6	38		
$6\frac{1}{8}$	37		
$6\frac{3}{16}$	36		
$6\frac{1}{4}$	35		
$6\frac{5}{16}$ and $6\frac{3}{8}$	34		
$6\frac{7}{16}$	33		
$6\frac{1}{2}$	32		
$6\frac{9}{16}$ and $6\frac{5}{8}$	31		
$6\frac{11}{16}$ and $6\frac{3}{4}$	30		
$6\frac{13}{16}$ and $6\frac{7}{8}$	29		
$6\frac{15}{16}$ and 7	28		
$7\frac{1}{16}$ and $7\frac{1}{8}$	27		
$7\frac{3}{16}$ to $7\frac{3}{8}$	26		
$7\frac{1}{2}$ to $7\frac{1}{2}$	25		

NOTE.—Longer lengths can be obtained only by special arrangement.



## Cold-Twisted Square Concrete Bars

Unless otherwise specified, cold-twisted bars will conform with Manufacturers' Standard Specifications.



Size, Inches	Area, Square Inches	Weight per Foot, Pounds	Maximum Length, Feet
$\frac{1}{4}$	.0625	.212	40
$\frac{5}{16}$	.0977	.332	40
$\frac{3}{8}$	.1406	.478	40
$\frac{7}{16}$	.1914	.651	40
$\frac{1}{2}$	.2500	.850	40
$\frac{9}{16}$	.3164	1.076	40
$\frac{5}{8}$	.3906	1.328	40
$\frac{11}{16}$	.4727	1.607	40
$\frac{3}{4}$	.5625	1.913	60
$\frac{13}{16}$	.6602	2.245	60
$\frac{7}{8}$	.7656	2.603	60
$\frac{15}{16}$	.8789	2.988	60
1	1.0000	3.400	60
$1\frac{1}{8}$	1.2656	4.303	60
$1\frac{1}{4}$	1.5625	5.312	60
$1\frac{3}{8}$	1.8906	6.428	60
$1\frac{1}{2}$	2.2500	7.650	60

NOTE.—All intermediate sizes can be furnished. For weights, see Table of Squares, pages 213 to 215. Write for circular.

Longer lengths furnished only by special arrangement.

## Diamond Bars

### For Reinforcing Concrete



Sizes, Inches	Area, Square Inches, Equivalent to Plain Squares	Area, Square Inches, Equivalent to Plain Rounds	Weight per Foot, Pounds Equivalent to Plain Squares	Weight per Foot, Pounds Equivalent to Plain Rounds	Maximum Length, Feet
$\frac{3}{8}$	.1406	.1104	.478	.376	40
$\frac{7}{16}$	.1914	.1503	.651	.511	40
$\frac{1}{2}$	.2500	.1963	.850	.668	40
$\frac{5}{8}$	.3906	.3068	1.328	1.043	40
$\frac{3}{4}$	.5625	.4418	1.913	1.502	60
$\frac{7}{8}$	.7656	.6013	2.603	2.044	60
1	1.0000	.7854	3.400	2.670	60
$1\frac{1}{8}$	1.2656	.9940	4.303	3.379	60
$1\frac{1}{4}$	1.5625	.....	5.312	.....	60

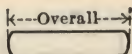
Weights and areas of Diamond Bars are equal to plain bars of like denominations.

Longer lengths furnished only by special arrangement.

Unless otherwise specified, bars for Concrete Reinforcement will conform with the Structural Grade of Manufacturers' Standard Specifications.

**IMPORTANT.**—When ordering be sure to state whether bars equivalent to areas of plain rounds or plain squares are wanted.

# Round Edge Flats



## Measured Over All

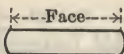
The face measurement of Round Edge Flats is determined by subtracting .42 of the thickness from the overall width.

Width, Inches	Thickness, Inches	Width, Inches	Thickness, Inches
$\frac{1}{2}$	$\frac{1}{8}$ to $\frac{5}{16}$	$2\frac{1}{8}$	$\frac{1}{4}$ to 1
$\frac{9}{16}$	$\frac{1}{8}$ to $\frac{5}{16}$	$2\frac{3}{16}$	$\frac{1}{4}$ to 1
$\frac{5}{8}$	$\frac{1}{8}$ to $\frac{5}{16}$	$2\frac{1}{4}$	$\frac{1}{4}$ to 1
$1\frac{1}{16}$	$\frac{1}{8}$ to $\frac{3}{8}$	$2\frac{5}{16}$	$\frac{1}{4}$ to 1
$\frac{3}{4}$	$\frac{1}{8}$ to $\frac{3}{8}$	$2\frac{3}{8}$	$\frac{1}{4}$ to 1
$1\frac{3}{16}$	$\frac{1}{8}$ to $\frac{7}{16}$	$2\frac{7}{16}$	$\frac{1}{4}$ to 1
$\frac{7}{8}$	$\frac{1}{8}$ to $\frac{7}{16}$	$2\frac{1}{2}$	$\frac{1}{4}$ to 1
$1\frac{5}{16}$	$\frac{1}{8}$ to $\frac{1}{2}$	$2\frac{5}{8}$	$\frac{1}{4}$ to 1
1	$\frac{1}{8}$ to $\frac{1}{2}$	$2\frac{3}{4}$	$\frac{1}{4}$ to 1
$1\frac{1}{16}$	$\frac{1}{8}$ to $\frac{1}{2}$	$2\frac{7}{8}$	$\frac{1}{4}$ to 1
$1\frac{1}{8}$	$\frac{3}{16}$ to $\frac{1}{2}$	3	$\frac{1}{4}$ to 1
$1\frac{3}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{1}{8}$	$\frac{1}{4}$ to 1
$1\frac{1}{4}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{1}{4}$	$\frac{1}{4}$ to 1
$1\frac{5}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{3}{8}$	$\frac{1}{4}$ to 1
$1\frac{3}{8}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{1}{2}$	$\frac{1}{4}$ to 1
$1\frac{7}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{5}{8}$	$\frac{3}{8}$ to 1
$1\frac{1}{2}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{3}{4}$	$\frac{3}{8}$ to 1
$1\frac{9}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{7}{8}$	$\frac{3}{8}$ to 1
$1\frac{5}{8}$	$\frac{3}{16}$ to $\frac{3}{4}$	4	$\frac{3}{8}$ to 1
$1\frac{11}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$4\frac{1}{8}$	$\frac{3}{8}$ to 1
$1\frac{3}{4}$	$\frac{3}{16}$ to 1	$4\frac{1}{4}$	$\frac{3}{8}$ to 1
$1\frac{13}{16}$	$\frac{1}{4}$ to 1	$4\frac{3}{8}$	$\frac{3}{8}$ to 1
$1\frac{7}{8}$	$\frac{1}{4}$ to 1	$4\frac{1}{2}$	$\frac{3}{8}$ to 1
$1\frac{15}{16}$	$\frac{1}{4}$ to 1	$4\frac{5}{8}$	$\frac{3}{8}$ to 1
2	$\frac{1}{4}$ to 1	$4\frac{3}{4}$	$\frac{3}{8}$ to 1
$2\frac{1}{16}$	$\frac{1}{4}$ to 1	* 5	$1\frac{1}{8}$

For weights see pages 222 to 225.

\* Special-rolled with full radius.

# Round Edge Tire



## Measured On The Face

The overall width of Round Edge Tire Steel is determined by adding .42 of thickness to the face measurement.

Width, Inches	Thickness, Inches	Width, Inches	Thickness, Inches
$\frac{1}{2}$	$\frac{1}{8}$ to $\frac{5}{16}$	2	$\frac{1}{4}$ to 1
$\frac{9}{16}$	$\frac{1}{8}$ to $\frac{5}{16}$	$2\frac{1}{16}$	$\frac{1}{4}$ to 1
$\frac{5}{8}$	$\frac{1}{8}$ to $\frac{5}{16}$	$2\frac{1}{8}$	$\frac{1}{4}$ to 1
$\frac{11}{16}$	$\frac{1}{8}$ to $\frac{3}{8}$	$2\frac{3}{16}$	$\frac{1}{4}$ to 1
$\frac{3}{4}$	$\frac{1}{8}$ to $\frac{3}{8}$	$2\frac{1}{4}$	$\frac{1}{4}$ to 1
$\frac{13}{16}$	$\frac{1}{8}$ to $\frac{7}{16}$	$2\frac{5}{16}$	$\frac{1}{4}$ to 1
$\frac{7}{8}$	$\frac{1}{8}$ to $\frac{7}{16}$	$2\frac{3}{8}$	$\frac{1}{4}$ to 1
$\frac{15}{16}$	$\frac{1}{8}$ to $\frac{1}{2}$	$2\frac{7}{16}$	$\frac{1}{4}$ to 1
1	$\frac{1}{8}$ to $\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{4}$ to 1
$1\frac{1}{16}$	$\frac{1}{8}$ to $\frac{1}{2}$	$2\frac{5}{8}$	$\frac{1}{4}$ to 1
$1\frac{1}{8}$	$\frac{3}{16}$ to $\frac{1}{2}$	$2\frac{3}{4}$	$\frac{1}{4}$ to 1
$1\frac{3}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$2\frac{7}{8}$	$\frac{1}{4}$ to 1
$1\frac{1}{4}$	$\frac{3}{16}$ to $\frac{3}{4}$	3	$\frac{1}{4}$ to 1
$1\frac{5}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{1}{8}$	$\frac{1}{4}$ to 1
$1\frac{3}{8}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{1}{4}$	$\frac{1}{4}$ to 1
$1\frac{7}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{3}{8}$	$\frac{1}{4}$ to 1
$1\frac{1}{2}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{1}{2}$	$\frac{1}{4}$ to 1
$1\frac{9}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{5}{8}$	$\frac{3}{8}$ to 1
$1\frac{5}{8}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{3}{4}$	$\frac{3}{8}$ to 1
$1\frac{11}{16}$	$\frac{3}{16}$ to $\frac{3}{4}$	$3\frac{7}{8}$	$\frac{3}{8}$ to 1
$1\frac{3}{4}$	$\frac{3}{16}$ to 1	4	$\frac{3}{8}$ to 1
$1\frac{13}{16}$	$\frac{1}{4}$ to 1	$4\frac{1}{8}$	$\frac{3}{8}$ to 1
$1\frac{7}{8}$	$\frac{1}{4}$ to 1	$4\frac{1}{4}$	$\frac{3}{8}$ to 1
$1\frac{15}{16}$	$\frac{1}{4}$ to 1	$4\frac{3}{8}$	$\frac{3}{8}$ to 1
		$4\frac{1}{2}$	$\frac{3}{8}$ to 1

For weights see pages 226 to 229.



## Hoops and Bands

Sizes 6 inches wide and under by thickness lighter than  $\frac{1}{4}$  inch as listed page 148.

## Square Edged Flats

- $\frac{1}{2}$  inch to 1 inch, wide x  $\frac{1}{8}$  inch up to width.
- $1\frac{1}{8}$  inches to 2 inches, wide x  $\frac{3}{16}$  inch up to width.
- $2\frac{1}{8}$  inches to  $2\frac{3}{8}$  inches, wide x  $\frac{1}{4}$  inch up to 2 inches.
- $2\frac{1}{2}$  inches to  $3\frac{1}{8}$  inches, wide x  $\frac{1}{4}$  inch up to width.
- $3\frac{1}{4}$  inches to 4 inches, wide x  $\frac{1}{4}$  inch up to 3 inches.
- $4\frac{1}{4}$  inches to  $4\frac{7}{8}$  inches, wide x  $\frac{1}{2}$  inch up to 2 inches.

# Flat Rolled Steel

Width, Inches	Thickness, Inches	Width, Inches	Thickness, Inches
$\frac{1}{2}$	.049 to $\frac{7}{16}$	$4\frac{3}{4}$	$\frac{1}{8}$ to 2
$\frac{5}{8}$	.049 to $\frac{9}{16}$	$4\frac{7}{8}$	$\frac{1}{8}$ to 2
$\frac{3}{4}$	.049 to $\frac{11}{16}$	5	$\frac{1}{8}$ to 2
$\frac{7}{8}$	.049 to $\frac{13}{16}$	$5\frac{1}{4}$	$\frac{1}{8}$ to 2
1	.049 to $\frac{15}{16}$	$5\frac{3}{8}$	$\frac{1}{8}$ to $2\frac{1}{4}$
$1\frac{1}{8}$	.049 to 1	$5\frac{1}{2}$	$\frac{1}{8}$ to 2
$1\frac{1}{4}$	.049 to $1\frac{1}{8}$	$5\frac{3}{4}$	$\frac{1}{8}$ to 2
$1\frac{3}{8}$	.049 to $1\frac{1}{4}$	6	$\frac{1}{8}$ to 2
$1\frac{1}{2}$	.049 to $1\frac{3}{8}$	$6\frac{1}{4}$	$\frac{1}{8}$ to 2
$1\frac{5}{8}$	.049 to $1\frac{1}{2}$	$6\frac{1}{2}$	$\frac{1}{8}$ to 2
$1\frac{3}{4}$	.058 to $1\frac{5}{8}$	$6\frac{3}{4}$	$\frac{1}{8}$ to 2
$1\frac{7}{8}$	.058 to $1\frac{3}{4}$	7	$\frac{1}{8}$ to 2
2	.065 to $1\frac{7}{8}$	$7\frac{1}{4}$	$\frac{1}{8}$ to 2
$2\frac{1}{16}$	.065 to $\frac{3}{16}$	$7\frac{1}{2}$	$\frac{1}{8}$ to 2
$2\frac{1}{8}$	.065 to 2	$7\frac{3}{4}$	$\frac{1}{8}$ to 2
$2\frac{1}{4}$	.065 to 2	$7\frac{7}{8}$	$\frac{1}{8}$ to 2
$2\frac{3}{8}$	.065 to 2	8	$\frac{1}{8}$ to 2
$2\frac{1}{2}$	.065 to $2\frac{3}{8}$	$8\frac{1}{2}$	$\frac{1}{8}$ to 2
$2\frac{5}{8}$	.065 to 2	9	$\frac{1}{8}$ to 2
$2\frac{3}{4}$	.065 to $2\frac{5}{8}$	$9\frac{1}{2}$	$\frac{1}{8}$ to 2
$2\frac{7}{8}$	.065 to $2\frac{3}{4}$	$9\frac{3}{4}$	$\frac{1}{8}$ to 2
3	.065 to $2\frac{7}{8}$	10	$\frac{5}{32}$ to 2
$3\frac{1}{8}$	$\frac{1}{4}$ to 3	$10\frac{1}{2}$	$\frac{5}{32}$ to 2
$3\frac{1}{4}$	.109 to 3	11	$\frac{1}{4}$ to 2
$3\frac{3}{8}$	.109 to 3	$11\frac{1}{2}$	.180 to 2
$3\frac{1}{2}$	.109 to 3	$11\frac{3}{4}$	.180 to 2
$3\frac{5}{8}$	$\frac{1}{4}$ to 3	12	$\frac{1}{4}$ to 2
$3\frac{3}{4}$	.109 to 3	$12\frac{1}{2}$	.180 to 2
$3\frac{7}{8}$	$\frac{1}{4}$ to 3	13	$\frac{1}{4}$ to 2
4	.109 to 3	$13\frac{5}{8}$	.180 to 2
$4\frac{1}{8}$	.109 to 2	$13\frac{3}{4}$	.180 to 2
$4\frac{1}{4}$	.109 to 2	14	$\frac{1}{4}$ to 2
$4\frac{3}{8}$	.109 to 2	15	$\frac{3}{16}$ to 2
$4\frac{1}{2}$	.125 to 2	16	$\frac{3}{8}$ to 2
$4\frac{5}{8}$	$\frac{1}{8}$ to 2		

NOTE.—For other widths, see Table of Universal Mill Plates, page 149.  
Thicknesses greater than those given may be arranged for in some of the above sizes.

**Universal Mill Plates**  
**Sizes, with Maximum Lengths in Feet**

We groove-roll various widths from  $6\frac{1}{4}$  inches to 16 inches

Thickness, Inches	WIDTH, INCHES				
	14-17 Inclusive	18-21 Inclusive	22	23	24-30 Inclusive
$\frac{1}{4}$	85	85	85	85	85
$\frac{5}{16}$	85	85	85	85	85
$\frac{3}{8}$	85	85	85	85	85
$\frac{7}{16}$	85	85	85	85	85
$\frac{1}{2}$	85	85	85	85	85
$\frac{9}{16}$	85	85	85	85	85
$\frac{5}{8}$	85	85	85	85	85
$1\frac{1}{16}$	85	85	85	85	85
$\frac{3}{4}$	85	85	85	85	85
$1\frac{1}{8}$	85	85	85	85	85
$\frac{7}{8}$	85	85	85	85	85
$1\frac{5}{16}$	85	85	85	85	85
1	85	85	85	85	83
$1\frac{1}{8}$	85	85	85	85	78
$1\frac{1}{4}$	85	85	85	85	70
$1\frac{3}{8}$	85	85	83	78	64
$1\frac{1}{2}$	80	80	76	71	58
$1\frac{5}{8}$	73	73	70	68	53
$1\frac{3}{4}$	68	68	65	61	48
$1\frac{7}{8}$	64	64	61	56	46
2	60	60	56	53	43

NOTE.—For intermediate widths not shown in above table, use length of next greater width.

Widths over 30 inches up to 42 inches subject to special consideration.

# List of Extreme Sizes of Sheared Plates

Thickness, Inches	WIDTH OF PLATES, INCHES											Thickness, Inches
	68	64	60	56	52	48	44	40	36	32	28	24
*No. 11			144	168	180	192	204	216	228	240	252	264
† 10			168	180	192	204	216	228	240	252	264	276
† 9			168	180	192	204	216	228	240	252	264	276
† 8				156	180	192	204	216	228	240	252	268
$\frac{3}{16}$	120	252	292	204	216	228	240	264	288	300	300	300
$\frac{1}{4}$	240	360	420	420	420	420	420	420	360	360	420	420
$\frac{5}{16}$	360	360	420	420	420	420	420	420	360	360	420	420
$\frac{3}{8}$	480	480	480	480	480	480	480	480	480	480	480	480
$\frac{7}{16}$	480	480	480	480	480	480	480	480	480	480	480	480
$\frac{1}{2}$	480	480	480	480	480	480	480	480	480	480	480	480
$\frac{9}{16}$	480	480	480	480	480	480	480	480	480	480	480	480
$\frac{5}{8}$	480	480	480	480	480	480	480	480	480	480	480	480
$\frac{11}{16}$	420	480	480	480	480	480	480	480	480	480	480	480
$\frac{3}{4}$	420	480	480	480	480	480	480	480	480	480	480	480
$\frac{13}{16}$	420	480	480	480	480	480	480	480	480	480	480	480
$\frac{7}{8}$	420	480	480	480	480	480	480	480	480	480	480	480
1	420	480	480	480	480	480	480	480	480	480	480	480
$1\frac{1}{4}$	300	300	300	312	324	360	360	360	360	300	300	360
$1\frac{1}{2}$	276	288	300	300	312	312	312	300	300	288	300	312
$1\frac{3}{4}$	264	276	276	300	288	276	300	300	300	276	276	276
$1\frac{5}{8}$	192	216	240	252	252	276	276	276	276	276	276	276
$1\frac{3}{4}$	180	192	192	240	240	252	252	252	252	252	252	252
$1\frac{7}{8}$	144	156	180	192	192	192	240	240	240	240	240	240
2	144	156	180	180	180	192	192	192	192	192	192	192

\* U. S. Standard. † Birmingham.  
 Plates of greater dimensions than shown in this table may be submitted for special consideration.  
 All our plates are accurately straightened by the most improved straightening methods known.



# JONES & LAUGHLIN STEEL COMPANY

## List of Extreme Sizes of Sheared Plates

Thickness, Inches	WIDTH OF PLATES, INCHES											Thickness, Inches
	110	106	102	98	94	90	88	84	80	76	72	
*No. 11												*No. 11
† 10												† 10
† 9												† 9
† 8												† 8
$\frac{3}{16}$												$\frac{3}{16}$
$\frac{1}{4}$						216	240	300	300	360	360	$\frac{1}{4}$
$\frac{5}{16}$					252	264	276	288	300	300	360	$\frac{5}{16}$
$\frac{3}{8}$	180	192	240	240	264	300	324	360	420	420	480	$\frac{3}{8}$
$\frac{7}{16}$	180	192	240	300	300	324	360	384	436	436	480	$\frac{7}{16}$
$\frac{1}{2}$	192	216	240	300	312	324	360	384	420	420	480	$\frac{1}{2}$
$\frac{9}{16}$	192	216	240	300	312	324	360	384	400	420	480	$\frac{9}{16}$
$\frac{5}{8}$	192	216	240	300	312	324	360	384	400	420	420	$\frac{5}{8}$
$1\frac{1}{16}$	192	216	240	300	312	324	360	360	400	400	420	$1\frac{1}{16}$
$\frac{3}{4}$	192	216	240	300	300	312	360	360	400	400	420	$\frac{3}{4}$
$1\frac{1}{8}$	192	216	240	300	300	312	360	360	372	384	420	$1\frac{1}{8}$
$\frac{7}{8}$	192	216	240	300	300	312	360	360	372	384	420	$\frac{7}{8}$
1	192	216	240	252	264	288	300	324	360	360	420	1
$1\frac{1}{4}$		180	180	192	192	204	276	276	276	276	300	$1\frac{1}{4}$
$1\frac{3}{8}$		180	180	192	192	204	240	240	250	252	264	$1\frac{3}{8}$
$1\frac{1}{2}$		180	180	192	192	204	240	240	228	240	264	$1\frac{1}{2}$
$1\frac{5}{8}$			120	120	120	192	132	192	192	192	252	$1\frac{5}{8}$
$1\frac{3}{4}$			108	108	108	132	120	180	180	180	180	$1\frac{3}{4}$
$1\frac{7}{8}$				108	108	120	120	144	144	144	144	$1\frac{7}{8}$
2					96	108	120	120	126	132	144	2

\* U. S. Standard, † Birmingham.

Plates of greater dimensions than shown in this table may be submitted for special consideration. All our plates are accurately straightened by the most improved straightening methods known.

### Circular Plates

Thickness, Inches	Maximum Diameter, Inches	Thickness, Inches	Maximum Diameter, Inches
$\frac{1}{8}$	65	$\frac{9}{16}$	103
$\frac{3}{16}$	72	$\frac{5}{8}$	103
$\frac{1}{4}$	90	$\frac{11}{16}$	103
$\frac{5}{16}$	100	$\frac{3}{4}$ }	103
$\frac{3}{8}$	103	up to }	
$\frac{7}{16}$	103	$1\frac{1}{2}$ }	
$\frac{1}{2}$	103		

# Cold Finished Steel Rounds For Shafting, Screw Stock, Piston Rods, Etc.

Made accurately to size and carefully straightened

DIAMETER		Weight per Foot	DIAMETER		Weight per Foot
Inches	Mm.		Inches	Mm.	
$\frac{1}{8}$	3.17	.042	$\frac{23}{32}$	18.26	1.379
$\frac{9}{64}$	3.57	.053	$\frac{47}{64}$	18.65	1.440
$\frac{5}{32}$	3.97	.065	$\frac{3}{4}$	19.05	1.502
$\frac{11}{64}$	4.37	.079	$\frac{49}{64}$	19.45	1.565
$\frac{3}{16}$	4.76	.094	$\frac{25}{32}$	19.84	1.630
$\frac{13}{64}$	5.16	.110	$\frac{51}{64}$	20.24	1.696
$\frac{7}{32}$	5.56	.128	$\frac{13}{16}$	20.64	1.763
$\frac{15}{64}$	5.95	.147	$\frac{53}{64}$	21.03	1.831
$\frac{1}{4}$	6.35	.167	$\frac{27}{32}$	21.44	1.901
$\frac{17}{64}$	6.75	.188	$\frac{55}{64}$	21.83	1.972
$\frac{9}{32}$	7.14	.211	$\frac{7}{8}$	22.22	2.044
$\frac{19}{64}$	7.54	.235	$\frac{57}{64}$	22.62	2.118
$\frac{5}{16}$	7.94	.261	$\frac{29}{32}$	23.02	2.193
$\frac{21}{64}$	8.33	.288	$\frac{59}{64}$	23.42	2.270
$\frac{11}{32}$	8.74	.316	$\frac{15}{16}$	23.81	2.347
$\frac{23}{64}$	9.13	.345	$\frac{61}{64}$	24.21	2.426
$\frac{3}{8}$	9.52	.376	$\frac{31}{32}$	24.61	2.506
$\frac{25}{64}$	9.92	.407	$\frac{63}{64}$	25.00	2.587
$\frac{13}{32}$	10.32	.441	1	25.40	2.670
$\frac{27}{64}$	10.72	.475	$\frac{11}{32}$	26.19	2.840
$\frac{7}{16}$	11.11	.511	$\frac{11}{16}$	26.99	3.014
$\frac{29}{64}$	11.51	.548	$\frac{13}{32}$	27.78	3.194
$\frac{15}{32}$	11.91	.587	$\frac{11}{8}$	28.57	3.379
$\frac{31}{64}$	12.30	.627	$\frac{15}{32}$	29.37	3.570
$\frac{1}{2}$	12.70	.668	$\frac{13}{16}$	30.16	3.766
$\frac{33}{64}$	13.10	.710	$\frac{17}{32}$	30.96	3.966
$\frac{17}{32}$	13.49	.754	$\frac{11}{4}$	31.75	4.173
$\frac{35}{64}$	13.89	.799	$\frac{19}{32}$	32.54	4.384
$\frac{9}{16}$	14.29	.845	$\frac{15}{16}$	33.34	4.600
$\frac{37}{64}$	14.68	.893	$\frac{111}{32}$	34.14	4.822
$\frac{19}{32}$	15.08	.941	$\frac{13}{8}$	34.92	5.049
$\frac{39}{64}$	15.48	.992	$\frac{113}{32}$	35.72	5.281
$\frac{5}{8}$	15.87	1.043	$\frac{17}{16}$	36.51	5.518
$\frac{41}{64}$	16.27	1.096	$\frac{115}{32}$	37.31	5.761
$\frac{21}{32}$	16.69	1.150	$\frac{11}{2}$	38.10	6.008
$\frac{43}{64}$	17.06	1.205	$\frac{117}{32}$	38.89	6.261
$\frac{11}{16}$	17.46	1.262	$\frac{19}{16}$	39.69	6.520
$\frac{45}{64}$	17.86	1.320	$\frac{119}{32}$	40.48	6.783

# **Cold Finished Steel Rounds** **For Shafting, Screw Stock, Piston Rods, Etc.**

Made accurately to size and carefully straightened

DIAMETER		Weight per Foot	DIAMETER		Weight per Foot
Inches	Mm.		Inches	Mm.	
$1\frac{5}{8}$	41.27	7.051	$3\frac{11}{16}$	93.66	36.31
$1\frac{21}{32}$	42.09	7.325	$3\frac{3}{4}$	95.25	37.56
$1\frac{11}{16}$	42.86	7.604	$3\frac{13}{16}$	96.84	38.81
$1\frac{23}{32}$	43.66	7.889	$3\frac{7}{8}$	98.42	40.10
$1\frac{3}{4}$	44.45	8.178	$3\frac{15}{16}$	100.01	41.40
$1\frac{25}{32}$	45.24	8.473	4	101.60	42.73
$1\frac{13}{16}$	46.04	8.773	$4\frac{1}{16}$	103.19	44.07
$1\frac{27}{32}$	46.83	9.078	$4\frac{1}{8}$	104.77	45.44
$1\frac{7}{8}$	47.62	9.388	$4\frac{3}{16}$	106.36	46.83
$1\frac{29}{32}$	48.42	9.704	$4\frac{1}{4}$	107.95	48.24
$1\frac{15}{16}$	49.21	10.02	$4\frac{5}{16}$	109.54	49.66
$1\frac{31}{32}$	50.01	10.35	$4\frac{3}{8}$	111.12	51.11
2	50.80	10.68	$4\frac{7}{16}$	112.71	52.58
$2\frac{1}{16}$	52.39	11.36	$4\frac{1}{2}$	114.30	54.07
$2\frac{1}{8}$	53.97	12.06	$4\frac{9}{16}$	115.89	55.59
$2\frac{3}{16}$	55.56	12.78	$4\frac{5}{8}$	117.47	57.12
$2\frac{1}{4}$	57.15	13.52	$4\frac{11}{16}$	119.06	58.67
$2\frac{5}{16}$	58.74	14.28	$4\frac{3}{4}$	120.65	60.25
$2\frac{3}{8}$	60.32	15.07	$4\frac{13}{16}$	122.24	61.84
$2\frac{7}{16}$	61.91	15.86	$4\frac{7}{8}$	123.82	63.46
$2\frac{1}{2}$	63.50	16.69	$4\frac{15}{16}$	125.41	65.10
$2\frac{9}{16}$	65.09	17.53	5	127.00	66.76
$2\frac{5}{8}$	66.67	18.40	$5\frac{1}{8}$	130.17	70.14
$2\frac{11}{16}$	68.26	19.29	$5\frac{1}{4}$	133.35	73.60
$2\frac{3}{4}$	69.85	20.20	$5\frac{3}{8}$	136.52	77.15
$2\frac{13}{16}$	71.44	21.12	$5\frac{1}{2}$	139.70	80.77
$2\frac{7}{8}$	73.02	22.07	$5\frac{5}{8}$	142.87	84.49
$2\frac{15}{16}$	74.61	23.04	$5\frac{3}{4}$	146.05	88.29
3	76.20	24.03	$5\frac{7}{8}$	149.22	92.17
$3\frac{1}{16}$	77.79	25.04	6	152.40	96.14
$3\frac{1}{8}$	79.37	26.08	$6\frac{1}{8}$	155.57	100.2
$3\frac{3}{16}$	80.96	27.13	$6\frac{1}{4}$	158.75	104.3
$3\frac{1}{4}$	82.55	28.20	$6\frac{3}{8}$	161.92	108.5
$3\frac{5}{16}$	84.14	29.30	$6\frac{1}{2}$	165.10	112.8
$3\frac{3}{8}$	85.72	30.42	$6\frac{5}{8}$	168.27	117.2
$3\frac{7}{16}$	87.31	31.56	$6\frac{3}{4}$	171.45	121.7
$3\frac{1}{2}$	88.90	32.71	$6\frac{7}{8}$	174.62	126.2
$3\frac{9}{16}$	90.49	33.90	7	177.80	130.9
$3\frac{5}{8}$	92.07	35.09			





### Cold Finished Steel Hexagons Special Steel for Automatic Machine Work

SIZE (LEAST DIAM.)		Weight per Foot, Pounds	SIZE (LEAST DIAM.)		Weight per Foot, Pounds
Inches	Mm.		Inches	Mm.	
$\frac{3}{16}$	4.76	.104	$1\frac{1}{16}$	26.99	3.324
$\frac{7}{32}$	5.56	.141	$1\frac{1}{8}$	28.57	3.727
$\frac{1}{4}$	6.35	.183	$1\frac{3}{16}$	30.16	4.152
$\frac{9}{32}$	7.14	.233	$1\frac{1}{4}$	31.75	4.601
$\frac{5}{16}$	7.94	.288	$1\frac{5}{16}$	33.34	5.072
$11\frac{1}{32}$	8.74	.348	$1\frac{3}{8}$	34.92	5.567
$\frac{3}{8}$	9.52	.414	$1\frac{7}{16}$	36.51	6.085
$13\frac{1}{32}$	10.32	.486	$1\frac{1}{2}$	38.10	6.625
$\frac{7}{16}$	11.11	.564	$1\frac{9}{16}$	39.69	7.189
$\frac{15}{32}$	11.91	.647	$1\frac{5}{8}$	41.27	7.775
$\frac{1}{2}$	12.70	.736	$11\frac{1}{16}$	42.86	8.385
$17\frac{1}{32}$	13.49	.831	$1\frac{3}{4}$	44.45	9.018
$\frac{9}{16}$	14.29	.933	$11\frac{3}{16}$	46.04	9.673
$19\frac{1}{32}$	15.08	1.038	$1\frac{7}{8}$	47.62	10.352
$\frac{5}{8}$	15.87	1.150	$11\frac{5}{16}$	49.21	11.053
$11\frac{1}{16}$	17.46	1.392	2	50.80	11.778
$\frac{3}{4}$	19.05	1.656	$2\frac{1}{16}$	52.39	12.525
$13\frac{1}{16}$	20.64	1.944	$2\frac{1}{8}$	53.98	13.296
$\frac{7}{8}$	22.22	2.254	$2\frac{3}{16}$	55.56	14.089
$15\frac{1}{16}$	23.81	2.588	$2\frac{1}{4}$	57.15	14.906
1	25.40	2.945			



### Cold Finished Steel Squares For Keys, Splines, Square Shafts, Etc.

SQUARE		Weight per Foot, Pounds	SQUARE		Weight per Foot, Pounds
Inches	Mm.		Inches	Mm.	
$\frac{3}{16}$	4.76	.120	$1\frac{1}{16}$	26.99	3.84
$\frac{7}{32}$	5.56	.163	$1\frac{1}{8}$	28.57	4.31
$\frac{1}{4}$	6.35	.212	$1\frac{1}{4}$	31.75	5.32
$\frac{9}{32}$	7.14	.269	$1\frac{3}{8}$	34.92	6.43
$\frac{5}{16}$	7.94	.332	$1\frac{1}{2}$	38.10	7.65
$11\frac{1}{32}$	8.74	.402	$1\frac{5}{8}$	41.27	8.98
$\frac{3}{8}$	9.52	.478	$1\frac{3}{4}$	44.45	10.42
$\frac{7}{16}$	11.11	.651	2	50.80	13.61
$\frac{1}{2}$	12.70	.850	$2\frac{1}{4}$	57.15	17.22
$\frac{9}{16}$	14.29	1.08	$2\frac{1}{2}$	63.50	21.26
$\frac{5}{8}$	15.87	1.33	$2\frac{3}{4}$	69.85	25.72
$11\frac{1}{8}$	17.46	1.61	3	76.20	30.61
$\frac{3}{4}$	19.05	1.92	$3\frac{1}{4}$	82.55	35.93
$13\frac{1}{16}$	20.64	2.25	$3\frac{1}{2}$	88.90	41.67
$\frac{7}{8}$	22.22	2.60	$3\frac{3}{4}$	95.25	47.84
$15\frac{1}{16}$	23.81	2.99	4	101.60	54.42
1	25.40	3.40			

NOTE.—Sizes below  $2\frac{1}{2}$  inches have sharp corners. Sizes  $2\frac{1}{2}$ -inch and over, the corners are slightly rounded.



### Cold Finished Steel Flats



For Finger Bars, Knife Backs, Keys, Engine Guides,  
Elevator Slides, Etc.

Thickness, Inches	Width, Inches
$\frac{1}{8}$ to $1\frac{1}{2}$	Under 7
$\frac{1}{8}$ to 2	Under 5
$\frac{1}{8}$ to 3	Under 4

### Tables of Weights

The following tables are for reference only and have no bearing on the range of sizes produced by this Company.

The Weight of one cubic foot of steel is assumed to be approximately 489.6 pounds; weight of one cubic inch, 0.2833 pounds.

Weights of Flat Rolled Steel, Pounds Per Lineal Foot  
Thickness in Gauges from No. 24 to No. 1—Widths from  $\frac{3}{8}$  inch to 12 inches

Thickness, B. W. G.	WIDTH, INCHES														
	3/8	13/32	7/16	15/32	1/2	17/32	9/16	19/32	5/8	21/32	11/16	23/32	3/4	25/32	13/16
24	.0281	.0304	.0327	.0351	.0374	.0397	.0421	.0444	.0468	.0491	.0514	.0538	.0561	.0584	.0608
23	.0319	.0345	.0372	.0398	.0425	.0452	.0478	.0505	.0531	.0558	.0584	.0611	.0638	.0664	.0691
22	.0357	.0387	.0417	.0446	.0476	.0506	.0536	.0565	.0595	.0625	.0655	.0684	.0714	.0744	.0774
21	.0408	.0442	.0476	.0510	.0544	.0578	.0612	.0646	.0680	.0714	.0748	.0782	.0816	.0850	.0884
20	.0446	.0483	.0521	.0558	.0595	.0632	.0669	.0707	.0744	.0781	.0818	.0855	.0893	.0930	.0967
19	.0536	.0580	.0625	.0669	.0714	.0759	.0803	.0848	.0893	.0937	.0982	.1026	.1071	.1116	.1160
18	.0625	.0677	.0729	.0781	.0833	.0885	.0937	.0989	.1041	.1093	.1145	.1197	.1250	.1302	.1354
17	.0740	.0801	.0863	.0924	.0986	.1048	.1109	.1171	.1233	.1294	.1356	.1417	.1479	.1541	.1602
16	.0829	.0898	.0967	.1036	.1105	.1174	.1243	.1312	.1381	.1450	.1519	.1588	.1658	.1727	.1796
15	.0918	.0995	.1071	.1148	.1224	.1301	.1377	.1454	.1530	.1607	.1683	.1760	.1836	.1913	.1989
14	.1058	.1146	.1235	.1323	.1411	.1499	.1587	.1676	.1764	.1852	.1940	.2028	.2117	.2205	.2293
13	.1211	.1312	.1413	.1514	.1615	.1716	.1817	.1918	.2019	.2120	.2221	.2322	.2423	.2523	.2624
12	.1390	.1506	.1621	.1737	.1853	.1969	.2085	.2200	.2316	.2432	.2548	.2664	.2780	.2895	.3011
11	.1530	.1658	.1785	.1913	.2040	.2168	.2295	.2423	.2550	.2678	.2805	.2933	.3060	.3188	.3315
10	.1709	.1851	.1993	.2136	.2278	.2420	.2563	.2705	.2848	.2990	.3132	.3275	.3417	.3559	.3702
9	.1887	.2044	.2202	.2359	.2516	.2673	.2831	.2988	.3145	.3302	.3460	.3617	.3774	.3931	.4089
8	.2104	.2279	.2454	.2630	.2805	.2980	.3156	.3331	.3506	.3682	.3857	.4032	.4208	.4383	.4558
7	.2295	.2486	.2678	.2869	.3060	.3251	.3443	.3634	.3825	.4016	.4208	.4399	.4590	.4781	.4973
6	.2588	.2804	.3020	.3235	.3451	.3667	.3882	.4098	.4314	.4529	.4745	.4961	.5177	.5392	.5608
5	.2805	.3039	.3273	.3506	.3740	.3974	.4208	.4441	.4675	.4909	.5143	.5376	.5610	.5844	.6078
4	.3035	.3287	.3540	.3793	.4046	.4299	.4552	.4805	.5058	.5310	.5563	.5816	.6069	.6322	.6575
3	.3302	.3577	.3853	.4128	.4403	.4678	.4953	.5229	.5504	.5779	.6054	.6329	.6605	.6880	.7155
2	.3621	.3923	.4225	.4526	.4828	.5130	.5432	.5733	.6035	.6337	.6639	.6940	.7242	.7544	.7846
1	.3825	.4144	.4463	.4781	.5100	.5419	.5738	.6056	.6375	.6694	.7013	.7331	.7650	.7969	.8288



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot

Continued

Thickness, B. W. G.	WIDTH, INCHES														
	27/32	7/8	29/32	15/16	31/32	1	1 1/32	1 1/16	1 3/32	1 1/2	1 5/32	1 3/16	1 7/32	1 1/4	1 9/32
24	.0631	.0655	.0678	.0701	.0725	.0748	.0771	.0795	.0818	.0842	.0865	.0888	.0912	.0935	.0958
23	.0717	.0744	.0770	.0797	.0823	.0850	.0877	.0903	.0930	.0956	.0983	.1009	.1036	.1063	.1089
22	.0803	.0833	.0863	.0893	.0922	.0952	.0982	.1012	.1041	.1071	.1101	.1131	.1160	.1190	.1220
21	.0918	.0952	.0986	.1020	.1054	.1088	.1122	.1156	.1190	.1224	.1258	.1292	.1326	.1360	.1394
20	.1004	.1041	.1078	.1116	.1153	.1190	.1227	.1264	.1302	.1339	.1376	.1413	.1450	.1488	.1525
19	.1205	.1250	.1294	.1339	.1383	.1428	.1473	.1517	.1562	.1607	.1651	.1696	.1740	.1785	.1830
18	.1406	.1458	.1510	.1562	.1614	.1666	.1718	.1770	.1822	.1874	.1926	.1978	.2030	.2083	.2135
17	.1604	.1726	.1787	.1849	.1910	.1972	.2034	.2095	.2157	.2219	.2280	.2342	.2403	.2465	.2527
16	.1865	.1934	.2003	.2072	.2141	.2210	.2279	.2348	.2417	.2486	.2555	.2624	.2693	.2763	.2832
15	.2066	.2142	.2219	.2295	.2372	.2448	.2525	.2601	.2678	.2754	.2831	.2907	.2984	.3060	.3137
14	.2381	.2469	.2557	.2646	.2734	.2822	.2910	.2998	.3087	.3175	.3263	.3351	.3439	.3528	.3616
13	.2725	.2826	.2927	.3028	.3129	.3230	.3331	.3432	.3533	.3634	.3735	.3836	.3937	.4038	.4138
12	.3127	.3243	.3359	.3474	.3590	.3706	.3822	.3938	.4053	.4169	.4285	.4401	.4517	.4633	.4748
11	.3443	.3570	.3698	.3825	.3953	.4080	.4208	.4335	.4463	.4590	.4718	.4845	.4973	.5100	.5228
10	.3844	.3987	.4129	.4271	.4414	.4556	.4698	.4841	.4983	.5126	.5268	.5410	.5553	.5695	.5837
9	.4246	.4403	.4560	.4718	.4875	.5032	.5189	.5347	.5504	.5661	.5818	.5976	.6133	.6290	.6447
8	.4733	.4909	.5084	.5259	.5435	.5610	.5785	.5961	.6136	.6311	.6487	.6662	.6837	.7013	.7188
7	.5164	.5355	.5546	.5738	.5929	.6120	.6311	.6503	.6694	.6885	.7076	.7268	.7459	.7650	.7841
6	.5824	.6039	.6255	.6471	.6686	.6902	.7118	.7333	.7549	.7765	.7980	.8196	.8412	.8628	.8843
5	.6311	.6545	.6779	.7013	.7246	.7480	.7714	.7948	.8181	.8415	.8649	.8883	.9116	.9350	.9584
4	.6828	.7081	.7333	.7586	.7839	.8092	.8345	.8598	.8851	.9104	.9356	.9609	.9862	1.0115	1.0368
3	.7430	.7705	.7980	.8256	.8531	.8806	.9081	.9356	.9632	.9907	1.0182	1.0457	1.0732	1.1008	1.1283
2	.8147	.8449	.8751	.9053	.9354	.9656	.9958	1.0260	1.0561	1.0863	1.1165	1.1467	1.1768	1.2070	1.2372
1	.8606	.8925	.9244	.9563	.9881	1.0200	1.0519	1.0838	1.1156	1.1475	1.1794	1.2113	1.2431	1.2750	1.3069

Weights of Flat Rolled Steel, Pounds Per Lineal Foot  
Continued

Thickness, B. W. G.	WIDTH, INCHES														
	1 5/16	1 11/32	1 3/8	1 13/32	1 7/16	1 15/32	1 1/2	1 9/16	1 5/8	1 11/16	1 3/4	1 13/16	1 7/8	1 15/16	2
24	.0982	1.005	1.029	.1052	.1075	1.099	.1122	.1169	.1216	.1262	.1309	.1356	.1403	.1449	.1496
23	.1116	1.169	1.195	.1222	.1248	1.248	.1275	.1328	.1381	.1434	.1488	.1541	.1594	.1647	.1700
22	.1250	1.279	1.309	.1339	.1369	1.398	.1428	.1488	.1547	.1607	.1666	.1726	.1785	.1845	.1904
21	.1428	1.462	1.496	.1530	.1564	1.598	.1632	.1700	.1768	.1836	.1904	.1972	.2040	.2108	.2176
20	.1562	1.599	1.636	.1673	.1711	1.748	.1785	.1859	.1934	.2008	.2083	.2157	.2231	.2306	.2380
19	.1874	1.919	1.964	.2008	.2053	.2097	.2142	.2231	.2321	.2410	.2499	.2588	.2678	.2767	.2856
18	.2187	2.239	.2291	.2343	.2395	.2447	.2499	.2603	.2707	.2811	.2916	.3020	.3124	.3228	.3332
17	.2588	2.650	.2712	.2773	.2835	.2896	.2958	.3081	.3205	.3328	.3451	.3574	.3698	.3821	.3944
16	.2901	2.970	.3039	.3108	.3177	.3246	.3315	.3453	.3591	.3729	.3868	.4006	.4144	.4282	.4420
15	.3213	3.290	.3366	.3443	.3519	.3596	.3672	.3823	.3978	.4131	.4284	.4437	.4590	.4743	.4896
14	.3704	.3792	.3880	.3968	.4057	.4145	.4233	.4409	.4586	.4762	.4939	.5115	.5291	.5468	.5644
13	.4239	.4340	.4441	.4542	.4643	.4744	.4845	.5047	.5249	.5451	.5653	.5854	.6056	.6258	.6460
12	.4864	.4980	.5096	.5212	.5327	.5443	.5559	.5791	.6022	.6254	.6486	.6717	.6949	.7180	.7412
11	.5355	.5483	.5610	.5738	.5865	.5993	.6120	.6375	.6630	.6885	.7140	.7395	.7650	.7905	.8160
10	.5980	.6122	.6265	.6407	.6549	.6692	.6834	.7119	.7404	.7688	.7973	.8258	.8543	.8827	.9112
9	.6605	.6762	.6919	.7076	.7234	.7391	.7548	.7863	.8177	.8492	.8806	.9121	.9435	.9750	1.0064
8	.7363	.7538	.7714	.7889	.8064	.8240	.8415	.8766	.9116	.9467	.9818	1.0168	1.0519	1.0869	1.1220
7	.8033	.8224	.8415	.8606	.8798	.8989	.9180	.9563	.9945	1.0328	1.0710	1.1093	1.1475	1.1858	1.2240
6	.9059	.9275	.9490	.9706	.9922	1.0137	1.0353	1.0784	1.1216	1.1647	1.2079	1.2510	1.2941	1.3373	1.3804
5	.9818	1.0051	1.0285	1.0519	1.0753	1.0986	1.1220	1.1688	1.2155	1.2623	1.3090	1.3558	1.4025	1.4493	1.4960
4	1.0621	1.0874	1.1127	1.1379	1.1632	1.1885	1.2138	1.2644	1.3150	1.3655	1.4161	1.4667	1.5173	1.5678	1.6184
3	1.1558	1.1833	1.2108	1.2383	1.2659	1.2934	1.3209	1.3759	1.4293	1.4835	1.5377	1.5919	1.6461	1.7003	1.7545
2	1.2674	1.2975	1.3277	1.3579	1.3881	1.4182	1.4484	1.5088	1.5691	1.6295	1.6898	1.7502	1.8105	1.8709	1.9312
1	1.3388	1.3706	1.4025	1.4344	1.4663	1.4981	1.5300	1.5938	1.6575	1.7213	1.7850	1.8488	1.9125	1.9763	2.0400

Weights of Flat Rolled Steel, Pounds Per Lineal Foot  
Continued

Thickness, B. W. G.	WIDTH, INCHES													
	2 1/16	2 1/8	2 3/16	2 1/4	2 5/16	2 3/8	2 7/16	2 1/2	2 9/16	2 5/8	2 11/16	2 3/4	2 13/16	2 15/16
24	1.543	1.590	1.636	1.683	1.730	1.777	1.823	1.870	1.917	1.964	2.010	2.057	2.104	2.197
23	1.753	1.806	1.859	1.913	1.966	2.019	2.072	2.125	2.178	2.231	2.284	2.338	2.391	2.497
22	1.964	2.023	2.083	2.142	2.202	2.261	2.321	2.380	2.440	2.499	2.559	2.618	2.678	2.797
21	2.244	2.312	2.380	2.448	2.516	2.584	2.652	2.720	2.788	2.856	2.924	2.992	3.060	3.196
20*	2.454	2.529	2.603	2.678	2.752	2.826	2.901	2.975	3.049	3.124	3.198	3.273	3.347	3.496
19	2.945	3.035	3.124	3.213	3.302	3.392	3.481	3.570	3.659	3.749	3.838	3.927	4.016	4.195
18	3.336	3.540	3.644	3.749	3.853	3.957	4.061	4.165	4.269	4.373	4.477	4.582	4.686	4.894
17	4.067	4.191	4.314	4.437	4.560	4.684	4.807	4.930	5.053	5.177	5.300	5.423	5.546	5.793
16	4.558	4.696	4.834	4.973	5.111	5.249	5.387	5.525	5.663	5.801	5.939	6.078	6.216	6.492
15	5.049	5.202	5.355	5.508	5.661	5.814	5.967	6.120	6.273	6.426	6.579	6.732	6.885	7.191
14	5.820	5.997	6.173	6.350	6.526	6.702	6.879	7.055	7.231	7.408	7.584	7.761	7.937	8.290
13	6.662	6.864	7.066	7.268	7.469	7.671	7.873	8.075	8.277	8.479	8.681	8.883	9.084	9.488
12	7.644	7.875	8.107	8.339	8.570	8.802	9.033	9.265	9.497	9.728	9.960	1.0192	1.0423	1.0886
11	8.415	8.670	8.925	9.180	9.435	9.690	9.945	1.0200	1.0455	1.0710	1.0965	1.1220	1.1475	1.1985
10	9.397	9.682	9.966	1.0251	1.0536	1.0821	1.1105	1.1390	1.1675	1.1960	1.2244	1.2529	1.2814	1.3383
9	1.0379	1.0693	1.1008	1.1322	1.1637	1.1951	1.2266	1.2580	1.2895	1.3209	1.3524	1.3838	1.4153	1.4782
8	1.1571	1.1921	1.2272	1.2623	1.2973	1.3324	1.3674	1.4025	1.4376	1.4726	1.5077	1.5428	1.5778	1.6129
7	1.2623	1.3005	1.3388	1.3770	1.4153	1.4535	1.4918	1.5300	1.5683	1.6065	1.6448	1.6830	1.7213	1.7595
6	1.4235	1.4667	1.5098	1.5530	1.5961	1.6392	1.6824	1.7255	1.7686	1.8118	1.8549	1.8981	1.9412	1.9843
5	1.5428	1.5895	1.6363	1.6830	1.7298	1.7765	1.8233	1.8700	1.9168	1.9635	2.0103	2.0570	2.1038	2.1505
4	1.6690	1.7196	1.7701	1.8207	1.8713	1.9219	1.9724	2.0230	2.0736	2.1242	2.1747	2.2253	2.2759	2.3265
3	1.8102	1.8713	1.9263	1.9814	2.0364	2.0914	2.1465	2.2015	2.2565	2.3116	2.3666	2.4217	2.4767	2.5317
2	1.9916	2.0519	2.1123	2.1726	2.2330	2.2933	2.3537	2.4140	2.4744	2.5347	2.5951	2.6554	2.7158	2.7761
1	2.1038	2.1675	2.2313	2.2950	2.3588	2.4225	2.4863	2.5500	2.6138	2.6775	2.7413	2.8050	2.8688	2.9325



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot

## Continued

Thickness, B. W. G.	WIDTH, INCHES														
	3	3 1/16	3 1/8	3 3/16	3 1/4	3 5/16	3 3/8	3 7/16	3 1/2	3 9/16	3 5/8	3 11/16	3 3/4	3 13/16	3 7/8
24	2244	2291	2338	2384	2431	2478	2525	2571	2618	2665	2712	2758	2805	2852	2899
23	2350	2403	2456	2509	2563	2616	2669	2722	2775	2828	2881	2934	2987	3040	3093
22	2856	2916	2975	3035	3094	3154	3213	3273	3332	3392	3451	3511	3570	3630	3689
21	3264	3332	3400	3468	3536	3604	3672	3740	3808	3876	3944	4012	4080	4148	4216
20	3570	3644	3719	3793	3868	3942	4016	4091	4165	4239	4314	4388	4463	4537	4611
19	4284	4373	4463	4552	4641	4730	4820	4909	4998	5087	5177	5266	5355	5444	5534
18	4998	5102	5206	5310	5415	5519	5623	5727	5831	5935	6039	6143	6248	6352	6456
17	5916	6039	6163	6286	6409	6532	6656	6779	6902	7025	7149	7272	7395	7518	7642
16	6630	6768	6906	7044	7183	7321	7459	7597	7735	7873	8011	8149	8288	8426	8564
15	7344	7497	7650	7803	7956	8109	8262	8415	8568	8721	8874	9027	9180	9333	9486
14	8466	8642	8819	8995	9172	9348	9524	9701	9877	10053	10230	10406	10583	10759	10935
13	9690	9892	10094	10296	10498	10699	10901	11103	11305	11507	11709	11911	12113	12314	12516
12	11118	11350	11581	11813	12045	12276	12508	12739	12971	13203	13434	13666	13898	14129	14361
11	12240	12495	12750	13005	13260	13515	13770	14025	14280	14535	14790	15045	15300	15555	15810
10	13668	13953	14238	14522	14807	15092	15377	15661	15946	16231	16516	16800	17085	17370	17655
9	15096	15411	15725	16040	16354	16669	16983	17298	17612	17927	18241	18556	18870	19185	19499
8	16830	17181	17531	17882	18233	18583	18934	19284	19635	19986	20336	20687	21038	21388	21739
7	18360	18743	19125	19508	19890	20273	20655	21038	21420	21803	22185	22568	22950	23333	23715
6	20706	21137	21569	22000	22432	22863	23294	23726	24157	24588	25020	25451	25883	26314	26745
5	22440	22908	23375	23843	24310	24778	25245	25713	26180	26648	27115	27583	28050	28518	28985
4	24276	24782	25288	25793	26299	26805	27311	27816	28322	28828	29334	29839	30345	30851	31357
3	26418	26968	27519	28069	28620	29170	29720	30271	30821	31371	31922	32472	33023	33573	34123
2	28968	29572	30175	30779	31382	31986	32589	33193	33796	34400	35003	35607	36210	36814	37417
1	30600	31238	31875	32513	33150	33788	34425	35063	35700	36338	36975	37613	38250	38888	39525



Weights of Flat Rolled Steel, Pounds Per Lineal Foot  
Continued

WIDTH, INCHES

Thickness, B. W. G.	3 15/16	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8	4 7/16	4 1/2	4 9/16	4 5/8	4 11/16	4 3/4	4 7/8
24	2945	2992	3039	3086	3132	3179	3226	3273	3319	3366	3413	3460	3506	3553	3647
23	3347	3400	3453	3506	3559	3613	3666	3719	3772	3825	3878	3931	3984	4038	4144
22	3749	3808	3868	3927	3987	4046	4106	4165	4224	4284	4344	4403	4463	4522	4641
21	4284	4352	4420	4488	4556	4624	4692	4760	4828	4896	4964	5032	5100	5168	5304
20	4886	4760	4834	4909	4983	5058	5132	5206	5281	5355	5429	5504	5578	5653	5801
19	5623	5712	5801	5891	5980	6069	6158	6248	6337	6426	6515	6605	6694	6783	6962
18	6560	6664	6768	6872	6976	7081	7185	7289	7393	7497	7601	7705	7809	7914	8122
17	7765	7888	8011	8135	8258	8381	8504	8628	8751	8874	8997	9121	9244	9367	9614
16	8702	8840	8978	9116	9254	9393	9531	9669	9807	9945	10083	10221	10359	10498	10774
15	9639	9792	9945	10098	10251	10404	10557	10710	10863	11016	11169	11322	11475	11628	11934
14	11112	11288	11464	11641	11817	11994	12170	12346	12523	12699	12875	13052	13228	13405	13757
13	12718	12920	13122	13324	13526	13728	13929	14131	14333	14535	14737	14939	15141	15343	15746
12	14592	14824	15056	15287	15519	15751	15982	16214	16445	16677	16909	17140	17372	17604	18067
11	16065	16320	16575	16830	17085	17340	17595	17850	18105	18360	18615	18870	19125	19380	19890
10	17939	18224	18509	18794	19078	19363	19648	19933	20217	20502	20787	21072	21356	21641	22211
9	19814	20128	20443	20757	21072	21386	21701	22015	22330	22644	22959	23273	23588	23902	24531
8	22089	22440	22791	23141	23492	23843	24193	24544	24894	25245	25596	25946	26297	26648	27349
7	24098	24480	24863	25245	25628	26010	26393	26775	27158	27540	27923	28305	28688	29070	29835
6	27177	27608	28039	28471	28902	29334	29765	30196	30628	31059	31490	31922	32353	32785	33647
5	29453	29920	30388	30855	31323	31790	32258	32725	33193	33660	34128	34595	35063	35530	36465
4	31862	32368	32874	33380	33885	34391	34897	35403	35908	36414	36920	37426	37931	38437	39449
3	34674	35224	35774	36325	36875	37426	37976	38526	39077	39627	40177	40728	41278	41829	42929
2	38021	38624	39228	39831	40435	41038	41642	42245	42849	43452	44056	44659	45263	45866	47073
1	40163	40800	41438	42075	42713	43350	43988	44625	45263	45900	46538	47175	47813	48450	49725

# Weights of Flat Rolled Steel, Pounds Per Lineal Foot

## Continued

Thick- ness, B. W. G.	WIDTH, INCHES													
	5	5 1/8	5 1/4	5 3/8	5 1/2	5 5/8	5 3/4	5 7/8	6	6 1/8	6 1/4	6 3/8	6 1/2	6 5/8
24	3740	3834	3927	4021	4114	4208	4301	4395	4488	4582	4675	4769	4862	4956
23	4250	4356	4463	4569	4675	4781	4888	4994	5100	5206	5313	5419	5525	5631
22	4760	4879	4998	5117	5236	5355	5474	5593	5712	5831	5950	6069	6188	6307
21	5440	5576	5712	5848	5984	6120	6256	6392	6528	6664	6800	6936	7072	7208
20	5950	6099	6248	6396	6545	6694	6843	6991	7140	7289	7438	7586	7735	7884
19	7140	7319	7497	7676	7854	8033	8211	8390	8568	8747	8925	9104	9282	9461
18	8330	8538	8747	8955	9163	9371	9580	9788	9996	10204	10413	10621	10829	11037
17	9860	10107	10353	10600	10846	11093	11339	11586	11832	12079	12325	12572	12818	13065
16	11050	11326	11603	11879	12155	12431	12708	12984	13260	13536	13813	14089	14365	14641
15	12240	12546	12852	13158	13464	13770	14076	14382	14688	14994	15300	15606	15912	16218
14	14110	14463	14816	15168	15521	15874	16227	16579	16932	17285	17638	17990	18343	18696
13	16150	16553	16958	17361	17765	18169	18573	18976	19380	19784	20188	20591	20995	21399
12	18530	18993	19457	19920	20383	20846	21310	21773	22236	22699	23163	23626	24089	24552
11	20400	20910	21420	21930	22440	22950	23460	23970	24480	24990	25500	26010	26520	27030
10	22780	23350	23919	24489	25058	25628	26197	26767	27336	27906	28475	29045	29614	30183
9	25160	25789	26418	27047	27676	28305	28934	29563	30192	30821	31450	32079	32708	33337
8	28050	28751	29453	30154	30855	31556	32258	32959	33660	34361	35063	35764	36465	37166
7	30600	31353	32106	32859	33612	34365	35118	35871	36624	37377	38130	38883	39636	40389
6	34510	35373	36236	37098	37961	38824	39687	40549	41412	42275	43138	44000	44863	45726
5	37400	38353	39270	40205	41140	42075	43010	43945	44880	45815	46750	47685	48620	49555
4	40460	41424	42383	43345	44306	45268	46229	47191	48152	49114	50075	51036	51997	52958
3	44030	45131	46232	47332	48433	49534	50635	51735	52836	53937	55038	56138	57239	58340
2	48280	49475	50664	51855	53045	54235	55425	56615	57805	58995	60185	61375	62565	63755
1	51000	52275	53550	54825	56100	57375	58650	59925	61200	62475	63750	65025	66300	67575

# Weights of Flat Rolled Steel, Pounds Per Lineal Foot

Continued

Thick- ness, B. W. G.	WIDTH, INCHES														
	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4	7 7/8	8	8 1/8	8 1/4	8 3/8	8 1/2	8 5/8	8 7/8
24	5236	5330	5423	5517	5610	5704	5797	5891	5984	6078	6171	6265	6358	6452	6545
23	5950	6056	6163	6269	6375	6481	6588	6694	6800	6906	7013	7119	7225	7331	7438
22	6664	6783	6902	7021	7140	7259	7378	7497	7616	7735	7854	7973	8092	8211	8330
21	7616	7752	7888	8024	8160	8296	8432	8568	8704	8840	8976	9112	9248	9384	9520
20	8330	8479	8628	8776	8925	9074	9223	9371	9520	9669	9818	9966	10115	10264	10413
19	9996	10175	10353	10532	10710	10889	11067	11246	11424	11603	11781	11960	12138	12317	12495
18	11662	11870	12079	12287	12495	12703	12912	13120	13328	13536	13745	13953	14161	14369	14578
17	13804	14051	14297	14544	14790	15037	15283	15530	15776	16023	16269	16516	16762	17009	17255
16	15470	15746	16023	16299	16575	16851	17128	17404	17680	17956	18233	18509	18785	19061	19338
15	17136	17442	17748	18054	18360	18666	18972	19278	19584	19890	20196	20502	20808	21114	21420
14	19754	20107	20460	20812	21165	21518	21871	22223	22576	22929	23282	23634	23987	24340	24693
13	22610	23014	23418	23821	24225	24629	25033	25436	25840	26244	26648	27051	27455	27859	28263
12	25942	26405	26869	27332	27795	28258	28722	29185	29648	30111	30575	31038	31501	31964	32428
11	28560	29070	29580	30090	30600	31103	31603	32103	32603	33103	33603	34103	34603	35103	35603
10	31892	32463	33033	33603	34173	34743	35313	35883	36453	37023	37593	38163	38733	39303	39873
9	35224	35853	36483	37113	37740	38369	38998	39627	40256	40885	41514	42143	42772	43401	44030
8	39270	39971	40673	41374	42075	42776	43478	44179	44880	45581	46283	46984	47685	48386	49088
7	42840	43605	44370	45135	45900	46665	47430	48195	48960	49725	50490	51255	52020	52785	53550
6	48314	49175	50040	50905	51765	52628	53491	54353	55216	56079	56942	57805	58667	59530	60393
5	52860	53295	54230	55165	56100	57035	57970	58905	59840	60775	61710	62645	63580	64515	65450
4	56844	57655	58675	59696	60706	61726	62736	63756	64766	65786	66796	67816	68826	69846	70857
3	61842	62736	63646	64546	65446	66346	67246	68146	69046	69946	70846	71746	72646	73546	74446
2	67592	68597	69606	70606	71606	72606	73606	74606	75606	76606	77606	78606	79606	80606	81597
1	71400	72675	73950	75225	76500	77775	79050	80325	81600	82875	84150	85425	86700	87975	89250



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot

## Concluded

Thick- ness, B. W. G.	WIDTH, INCHES													
	9	9 1/8	9 1/4	9 3/8	9 1/2	9 5/8	9 3/4	10	10 1/4	10 1/2	10 3/4	11	11 1/4	11 1/2
24	6732	6826	6919	7013	7106	7200	7293	748	767	785	804	823	842	860
23	7650	7756	7863	7969	8075	8181	8288	850	871	893	914	935	956	978
22	8568	8687	8806	8925	9044	9163	9282	952	976	1,000	1,023	1,047	1,071	1,095
21	9792	9928	1,0064	1,0200	1,0336	1,0472	1,0608	1,088	1,115	1,142	1,170	1,197	1,224	1,251
20	1,0710	1,0859	1,1008	1,1156	1,1305	1,1454	1,1603	1,190	1,220	1,250	1,279	1,309	1,339	1,369
19	1,2892	1,3031	1,3209	1,3388	1,3566	1,3743	1,3923	1,428	1,464	1,499	1,535	1,571	1,607	1,642
18	1,4994	1,5202	1,5411	1,5619	1,5827	1,6035	1,6244	1,666	1,708	1,749	1,791	1,833	1,874	1,916
17	1,7748	1,7995	1,8241	1,8488	1,8734	1,8981	1,9227	1,972	2,021	2,071	2,120	2,169	2,219	2,268
16	1,9890	2,0166	2,0442	2,0719	2,0995	2,1271	2,1548	2,210	2,265	2,321	2,376	2,431	2,486	2,542
15	2,2032	2,2382	2,2642	2,2902	2,3162	2,3422	2,3682	2,448	2,509	2,570	2,632	2,693	2,754	2,815
14	2,5382	2,5751	2,6104	2,6456	2,6809	2,7162	2,7515	2,822	2,893	2,963	3,034	3,104	3,175	3,245
13	2,9070	2,9474	2,9878	3,0281	3,0685	3,1089	3,1493	3,230	3,311	3,392	3,472	3,553	3,634	3,715
12	3,3354	3,3817	3,4281	3,4744	3,5207	3,5670	3,6134	3,706	3,799	3,891	3,984	4,077	4,169	4,262
11	3,6720	3,7203	3,7686	3,8169	3,8652	3,9135	3,9618	4,080	4,182	4,284	4,386	4,488	4,590	4,692
10	4,1004	4,1574	4,2143	4,2713	4,3282	4,3852	4,4421	4,556	4,670	4,784	4,898	5,012	5,126	5,239
9	4,5288	4,5917	4,6546	4,7175	4,7804	4,8433	4,9062	5,032	5,158	5,284	5,409	5,535	5,661	5,787
8	5,0490	5,1191	5,1893	5,2594	5,3295	5,3996	5,4698	5,610	5,750	5,891	6,031	6,171	6,311	6,452
7	5,5080	5,5845	5,6610	5,7375	5,8140	5,8905	5,9670	6,120	6,273	6,426	6,579	6,732	6,885	7,038
6	6,2118	6,2981	6,3844	6,4706	6,5569	6,6432	6,7295	6,902	7,075	7,247	7,420	7,592	7,765	7,937
5	6,7320	6,8255	6,9190	7,0125	7,1060	7,1995	7,2930	7,480	7,667	7,854	8,041	8,228	8,415	8,602
4	7,2828	7,3840	7,4851	7,5863	7,6874	7,7886	7,8897	8,092	8,294	8,497	8,699	8,901	9,104	9,306
3	7,9254	8,0358	8,1468	8,2568	8,3678	8,4788	8,5898	8,806	9,026	9,246	9,467	9,687	9,907	10,127
2	8,6904	8,8118	8,9319	9,0529	9,1739	9,2939	9,4146	9,656	9,897	10,139	10,380	10,621	10,863	11,104
1	9,1800	9,3073	9,4350	9,5625	9,6900	9,8175	9,9450	10,200	10,455	10,710	10,965	11,220	11,475	11,730



Weights of Flat Rolled Steel, Pounds Per Lineal Foot  
Thicknesses from  $\frac{1}{32}$  inch to  $2\frac{1}{4}$  inches. Widths from  $\frac{3}{8}$  inch to  $132\frac{3}{4}$  inches

Thickness, Inches	WIDTH, INCHES														
	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$
$\frac{1}{32}$	.0398	.0432	.0465	.0498	.0531	.0564	.0598	.0631	.0664	.0697	.0730	.0764	.0797	.0830	.0863
$\frac{1}{16}$	.0797	.0863	.0930	.0996	.1063	.1129	.1195	.1262	.1328	.1395	.1461	.1527	.1594	.1660	.1727
$\frac{3}{32}$	.1195	.1295	.1395	.1494	.1594	.1693	.1793	.1893	.1992	.2092	.2191	.2291	.2391	.2490	.2590
$\frac{1}{8}$	.1594	.1727	.1859	.1992	.2125	.2258	.2391	.2523	.2656	.2789	.2922	.3055	.3188	.3320	.3453
$\frac{5}{32}$	.1992	.2158	.2324	.2490	.2656	.2822	.2988	.3154	.3320	.3486	.3652	.3818	.3984	.4150	.4316
$\frac{3}{16}$	.2391	.2590	.2789	.2988	.3188	.3387	.3586	.3785	.3984	.4184	.4383	.4582	.4781	.4980	.5180
$\frac{7}{32}$	.2789	.3021	.3254	.3486	.3719	.3951	.4184	.4416	.4648	.4881	.5113	.5346	.5578	.5811	.6043
$\frac{1}{4}$	.3188	.3453	.3719	.3984	.4250	.4516	.4781	.5047	.5313	.5578	.5844	.6109	.6375	.6641	.6906
$\frac{5}{8}$	.3984	.4316	.4648	.4980	.5313	.5645	.5977	.6309	.6641	.6973	.7305	.7637	.7969	.8301	.8633
$\frac{3}{8}$	.4781	.5180	.5578	.5977	.6375	.6773	.7172	.7570	.7969	.8367	.8766	.9164	.9563	.9961	1.0359
$\frac{7}{8}$	.5578	.6043	.6508	.6973	.7438	.7902	.8367	.8832	.9297	.9762	1.0227	1.0691	1.1156	1.1621	1.2086
$\frac{1}{2}$	.6375	.6906	.7438	.7969	.8500	.9031	.9563	1.0094	1.0625	1.1156	1.1687	1.2219	1.2750	1.3281	1.3813
$\frac{9}{16}$	.7172	.7770	.8367	.8965	.9563	1.0160	1.0758	1.1355	1.1953	1.2551	1.3148	1.3746	1.4344	1.4941	1.5539
$\frac{5}{16}$	.7969	.8633	.9297	.9961	1.0625	1.1289	1.1953	1.2617	1.3281	1.3945	1.4609	1.5273	1.5938	1.6602	1.7266
$\frac{11}{16}$	.8766	.9496	1.0227	1.0957	1.1688	1.2418	1.3148	1.3879	1.4609	1.5340	1.6070	1.6801	1.7531	1.8262	1.8992
$\frac{3}{4}$	.9563	1.0359	1.1156	1.1953	1.2750	1.3547	1.4344	1.5141	1.5938	1.6734	1.7531	1.8328	1.9125	1.9922	2.0719
$\frac{13}{16}$	1.0359	1.1223	1.2086	1.2949	1.3813	1.4676	1.5539	1.6402	1.7266	1.8129	1.8992	1.9855	2.0719	2.1582	2.2445
$\frac{7}{8}$	1.1156	1.2086	1.3016	1.3945	1.4875	1.5805	1.6734	1.7664	1.8594	1.9523	2.0453	2.1383	2.2313	2.3242	2.4172
$\frac{15}{16}$	1.1953	1.2949	1.3945	1.4941	1.5938	1.6934	1.7930	1.8926	1.9922	2.0918	2.1914	2.2910	2.3906	2.4902	2.5898
1	1.2750	1.3813	1.4875	1.5938	1.7000	1.8063	1.9125	2.0188	2.1250	2.2313	2.3375	2.4438	2.5500	2.6563	2.7625
$\frac{1}{8}$	1.3547	1.4711	1.5875	1.7039	1.8203	1.9367	2.0531	2.1695	2.2859	2.4023	2.5187	2.6351	2.7515	2.8679	2.9843
$\frac{1}{4}$	1.4344	1.5539	1.6734	1.7930	1.9125	2.0320	2.1516	2.2711	2.3906	2.5102	2.6297	2.7492	2.8688	2.9883	3.1078
$\frac{3}{8}$	1.5141	1.6386	1.7631	1.8876	2.0121	2.1366	2.2611	2.3856	2.5101	2.6346	2.7591	2.8836	2.9981	3.1226	3.2471
$\frac{1}{2}$	1.5938	1.7266	1.8594	1.9922	2.1250	2.2578	2.3906	2.5234	2.6563	2.7891	2.9219	3.0547	3.1875	3.3203	3.4531
$\frac{5}{8}$	1.6734	1.8129	1.9523	2.0918	2.2313	2.3708	2.5102	2.6497	2.7891	2.9286	3.0681	3.2076	3.3471	3.4866	3.6261
$\frac{3}{4}$	1.7531	1.8992	2.0453	2.1914	2.3375	2.4836	2.6297	2.7758	2.9219	3.0680	3.2141	3.3602	3.5063	3.6523	3.7984
$\frac{7}{8}$	1.8328	2.0719	2.2313	2.3906	2.5500	2.7094	2.8688	3.0281	3.1875	3.3469	3.5063	3.6656	3.8250	3.9844	4.1438
$\frac{15}{8}$	1.9125	2.0719	2.2313	2.3906	2.5500	2.7094	2.8688	3.0281	3.1875	3.3469	3.5063	3.6656	3.8250	3.9844	4.1438
$\frac{1}{8}$	2.0719	2.2445	2.4172	2.5898	2.7625	2.9352	3.1078	3.2805	3.4531	3.6258	3.7984	3.9711	4.1438	4.3164	4.4891
$\frac{3}{8}$	2.2313	2.4172	2.6031	2.7889	2.9748	3.1607	3.3466	3.5325	3.7184	3.9043	4.0902	4.2761	4.4620	4.6479	4.8338
$\frac{1}{4}$	2.3906	2.5898	2.7891	2.9883	3.1875	3.3867	3.5859	3.7852	3.9844	4.1836	4.3828	4.5820	4.7813	4.9805	5.1797
$\frac{5}{8}$	2.5500	2.7625	2.9750	3.1875	3.4000	3.6125	3.8250	4.0375	4.2500	4.4625	4.6750	4.8875	5.1000	5.3125	5.5250
2	2.7094	2.9352	3.1609	3.3867	3.6125	3.8383	4.0641	4.2898	4.5156	4.7414	4.9672	5.1930	5.4188	5.6445	5.8703
$\frac{2}{8}$	2.8688	3.1078	3.3469	3.5859	3.8250	4.0641	4.3031	4.5422	4.7813	5.0203	5.2594	5.4984	5.7375	5.9766	6.2156

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	27/32	7/8	29/32	15/16	31/32	1	1 1/32	1 1/16	1 1/8	1 5/32	1 3/16	1 7/32	1 1/4	1 1/2	1 5/8	1 3/4
1/4	.0896	.0930	.0963	.0996	.1029	.1063	.1096	.1129	.1162	.1195	.1229	.1262	.1295	.1328	.1361	.1394
1/6	.1793	.1859	.1926	.1992	.2059	.2125	.2191	.2258	.2324	.2391	.2457	.2523	.2590	.2656	.2723	.2789
3/16	.2689	.2789	.2889	.2988	.3088	.3188	.3287	.3387	.3486	.3586	.3686	.3785	.3885	.3984	.4084	.4183
1/2	.3586	.3719	.3852	.3984	.4117	.4250	.4383	.4516	.4648	.4781	.4914	.5047	.5180	.5313	.5445	.5578
5/16	.4482	.4648	.4814	.4980	.5146	.5313	.5479	.5645	.5811	.5977	.6143	.6309	.6475	.6641	.6807	.6973
3/8	.5379	.5578	.5777	.5977	.6176	.6375	.6574	.6773	.6973	.7172	.7371	.7570	.7769	.7969	.8168	.8367
7/16	.6275	.6508	.6740	.6973	.7205	.7438	.7670	.7902	.8135	.8367	.8600	.8832	.9064	.9297	.9529	.9761
1/2	.7172	.7438	.7703	.7969	.8234	.8500	.8766	.9031	.9297	.9563	.9828	1.0094	1.0359	1.0625	1.0891	1.1156
5/8	.8065	.8297	.8529	.8761	.8993	.9225	.9457	.9689	.9921	1.0153	1.0385	1.0617	1.0849	1.1081	1.1313	1.1545
3/4	1.0758	1.1156	1.1555	1.1953	1.2352	1.2750	1.3148	1.3547	1.3945	1.4344	1.4742	1.5141	1.5539	1.5938	1.6336	1.6734
7/8	1.2551	1.3016	1.3480	1.3945	1.4410	1.4875	1.5340	1.5805	1.6270	1.6734	1.7199	1.7664	1.8129	1.8594	1.9059	1.9523
1 1/8	1.4344	1.4875	1.5406	1.5938	1.6469	1.7000	1.7531	1.8063	1.8594	1.9125	1.9656	2.0188	2.0719	2.1250	2.1781	2.2312
1 1/4	1.6137	1.6734	1.7332	1.7930	1.8527	1.9125	1.9723	2.0320	2.0918	2.1516	2.2113	2.2711	2.3309	2.3906	2.4504	2.5102
1 1/2	1.7930	1.8594	1.9258	1.9922	2.0586	2.1250	2.1914	2.2578	2.3242	2.3906	2.4570	2.5234	2.5898	2.6563	2.7227	2.7891
1 3/4	1.9723	2.0453	2.1184	2.1914	2.2645	2.3375	2.4105	2.4836	2.5566	2.6297	2.7027	2.7758	2.8488	2.9219	2.9949	3.0679
1 7/8	2.1516	2.2313	2.3109	2.3906	2.4703	2.5500	2.6297	2.7094	2.7891	2.8688	2.9484	3.0281	3.1078	3.1875	3.2672	3.3469
2	2.3309	2.4172	2.5035	2.5898	2.6762	2.7625	2.8488	2.9352	3.0215	3.1078	3.1941	3.2805	3.3668	3.4531	3.5395	3.6258
2 1/8	2.5102	2.6031	2.6961	2.7891	2.8820	2.9750	3.0680	3.1609	3.2539	3.3469	3.4398	3.5328	3.6258	3.7188	3.8117	3.9047
2 1/4	2.6895	2.7891	2.8887	2.9883	3.0879	3.1875	3.2871	3.3867	3.4863	3.5859	3.6855	3.7852	3.8848	3.9844	4.0840	4.1836
2 1/2	2.8688	2.9750	3.0813	3.1875	3.2938	3.4000	3.5063	3.6125	3.7188	3.8250	3.9313	4.0375	4.1438	4.2500	4.3563	4.4625
2 3/4	3.2273	3.3469	3.4664	3.5859	3.7055	3.8250	3.9445	4.0641	4.1836	4.3031	4.4227	4.5422	4.6617	4.7813	4.9008	5.0203
2 7/8	3.5859	3.7188	3.8516	3.9844	4.1172	4.2500	4.3828	4.5156	4.6484	4.7813	4.9141	5.0469	5.1797	5.3125	5.4453	5.5781
3	3.9445	4.0906	4.2367	4.3828	4.5289	4.6750	4.8211	4.9672	5.1133	5.2594	5.4055	5.5516	5.6977	5.8438	5.9898	6.1359
3 1/8	4.3031	4.4625	4.6219	4.7813	4.9406	5.1000	5.2594	5.4188	5.5781	5.7375	5.8969	6.0563	6.2156	6.3750	6.5344	6.6938
3 1/4	4.6617	4.8344	5.0070	5.1797	5.3523	5.5250	5.6977	5.8703	6.0430	6.2156	6.3883	6.5609	6.7336	6.9063	7.0789	7.2516
3 1/2	5.0203	5.2063	5.3922	5.5781	5.7641	5.9500	6.1359	6.3219	6.5078	6.6938	6.8797	7.0656	7.2516	7.4375	7.6234	7.8093
3 3/4	5.3789	5.5781	5.7773	5.9766	6.1758	6.3750	6.5742	6.7734	6.9727	7.1719	7.3711	7.5703	7.7695	7.9688	8.1680	8.3672
4	5.7375	5.9500	6.1625	6.3750	6.5875	6.8000	7.0125	7.2250	7.4375	7.6500	7.8625	8.0750	8.2875	8.5000	8.7125	8.9250
4 1/8	6.0961	6.3219	6.5477	6.7734	6.9992	7.2250	7.4508	7.6766	7.9023	8.1281	8.3539	8.5797	8.8055	9.0313	9.2570	9.4828
4 1/4	6.4547	6.6938	6.9328	7.1719	7.4109	7.6500	7.8891	8.1281	8.3672	8.6063	8.8453	9.0844	9.3234	9.5625	9.8016	10.0407



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	15/16	1 1/16	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/16	2 1/8	2 1/4	2 3/8	2 1/2
1/16	1.39	1.43	1.46	1.49	1.53	1.56	1.66	1.79	1.86	1.93	1.99	2.06	2.13	2.20	2.27
1/8	2.79	2.86	2.92	2.99	3.05	3.12	3.19	3.32	3.39	3.45	3.58	3.68	3.75	3.82	3.89
3/16	4.18	4.28	4.38	4.48	4.58	4.68	4.78	4.98	5.08	5.18	5.38	5.58	5.78	5.98	6.18
1/4	5.58	5.71	5.84	5.98	6.11	6.24	6.38	6.64	6.91	7.17	7.44	7.70	7.97	8.23	8.50
5/16	6.97	7.14	7.30	7.47	7.64	7.80	7.97	8.30	8.63	8.96	9.30	9.63	1.029	1.063	1.097
3/8	8.37	8.57	8.77	8.96	9.16	9.36	9.56	9.96	1.036	1.076	1.116	1.155	1.195	1.235	1.275
7/16	9.76	9.99	1.023	1.046	1.069	1.092	1.116	1.162	1.209	1.255	1.302	1.348	1.395	1.441	1.488
1/2	1.116	1.142	1.169	1.195	1.222	1.248	1.275	1.328	1.381	1.434	1.488	1.541	1.594	1.647	1.700
5/8	1.395	1.428	1.461	1.494	1.527	1.561	1.594	1.660	1.727	1.793	1.859	1.926	1.992	2.059	2.125
3/4	1.673	1.713	1.753	1.793	1.833	1.873	1.913	1.992	2.072	2.152	2.231	2.311	2.391	2.470	2.550
7/8	1.952	1.999	2.045	2.092	2.138	2.185	2.231	2.324	2.417	2.510	2.603	2.696	2.789	2.882	2.975
1	2.231	2.284	2.338	2.391	2.444	2.497	2.550	2.656	2.763	2.869	2.975	3.081	3.188	3.294	3.400
1 1/16	2.510	2.570	2.630	2.689	2.749	2.809	2.869	2.988	3.108	3.227	3.347	3.466	3.586	3.705	3.825
1 1/8	2.789	2.855	2.922	2.988	3.055	3.121	3.188	3.320	3.453	3.586	3.719	3.852	3.984	4.117	4.250
1 1/4	3.068	3.141	3.214	3.287	3.360	3.433	3.506	3.652	3.798	3.945	4.091	4.237	4.383	4.529	4.675
1 1/2	3.347	3.427	3.506	3.586	3.666	3.745	3.825	3.984	4.144	4.303	4.463	4.622	4.781	4.941	5.100
1 3/4	3.626	3.712	3.798	3.885	3.971	4.057	4.144	4.316	4.489	4.662	4.834	5.007	5.180	5.352	5.525
2	3.905	3.998	4.091	4.184	4.277	4.370	4.463	4.648	4.834	5.020	5.206	5.392	5.578	5.764	5.950
2 1/16	4.184	4.283	4.383	4.482	4.582	4.682	4.781	4.980	5.180	5.379	5.578	5.777	5.977	6.176	6.375
2 1/8	4.463	4.569	4.675	4.781	4.888	4.994	5.100	5.313	5.525	5.738	5.950	6.163	6.375	6.588	6.800
2 1/4	5.020	5.140	5.259	5.379	5.498	5.618	5.738	5.977	6.216	6.455	6.694	6.933	7.172	7.411	7.650
2 3/8	5.578	5.711	5.844	5.977	6.109	6.242	6.375	6.641	6.906	7.172	7.438	7.703	7.969	8.234	8.500
2 1/2	6.136	6.282	6.428	6.574	6.720	6.866	7.013	7.305	7.597	7.889	8.181	8.473	8.766	9.058	9.350
2 3/4	6.694	6.853	7.013	7.172	7.331	7.491	7.650	7.969	8.288	8.606	8.925	9.244	9.563	9.881	10.200
3	7.252	7.424	7.597	7.770	7.942	8.115	8.288	8.633	8.978	9.323	9.669	10.014	10.359	10.705	11.050
3 1/16	7.809	7.995	8.181	8.367	8.553	8.739	8.925	9.297	9.699	10.041	10.413	10.784	11.156	11.528	11.900
3 1/8	8.367	8.566	8.766	8.965	9.164	9.363	9.563	9.961	10.359	10.758	11.156	11.555	11.953	12.352	12.750
3 1/4	8.925	9.138	9.350	9.563	9.775	9.988	10.200	10.625	11.050	11.475	11.900	12.325	12.750	13.175	13.600
3 1/2	9.483	9.709	9.934	10.160	10.386	10.612	10.838	11.289	11.741	12.192	12.644	13.095	13.547	13.998	14.450
3 3/4	10.041	10.280	10.519	10.758	10.997	11.236	11.475	11.953	12.431	12.909	13.388	13.866	14.344	14.822	15.300

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

WIDTH, INCHES															
Thickness, Inches	21/16	2 1/8	2 3/16	2 1/4	2 5/16	2 3/8	2 7/16	2 1/2	2 9/16	2 5/4	2 11/16	2 3/4	2 13/16	2 7/4	2 15/16
1 1/2	.219	.226	.232	.239	.246	.252	.259	.266	.272	.279	.286	.292	.299	.305	.312
1 1/16	.438	.452	.465	.478	.491	.505	.518	.531	.545	.558	.571	.584	.598	.611	.624
1 1/8	.657	.677	.697	.717	.737	.757	.777	.797	.817	.837	.857	.877	.896	.916	.936
1 1/4	.877	.903	.930	.956	.983	1.009	1.036	1.063	1.089	1.116	1.142	1.169	1.195	1.222	1.248
1 1/2	1.096	1.129	1.162	1.195	1.229	1.262	1.295	1.328	1.361	1.395	1.428	1.461	1.494	1.527	1.561
1 1/8	1.315	1.355	1.395	1.434	1.474	1.514	1.554	1.594	1.634	1.673	1.713	1.753	1.793	1.833	1.873
1 1/4	1.534	1.580	1.627	1.673	1.720	1.766	1.813	1.859	1.906	1.952	1.999	2.045	2.092	2.138	2.185
1 1/2	1.753	1.806	1.859	1.913	1.966	2.019	2.072	2.125	2.178	2.231	2.284	2.338	2.391	2.444	2.497
1 3/8	2.191	2.258	2.324	2.391	2.457	2.523	2.590	2.656	2.723	2.789	2.855	2.922	2.988	3.055	3.121
1 1/4	2.630	2.709	2.789	2.869	2.948	3.028	3.108	3.188	3.267	3.347	3.427	3.506	3.586	3.666	3.745
1 1/8	3.068	3.161	3.254	3.347	3.440	3.533	3.626	3.719	3.812	3.905	3.998	4.091	4.184	4.277	4.370
1 1/2	3.506	3.613	3.719	3.825	3.931	4.038	4.144	4.250	4.356	4.463	4.569	4.675	4.781	4.888	4.994
1 3/8	3.945	4.064	4.184	4.303	4.423	4.542	4.662	4.781	4.901	5.020	5.140	5.259	5.379	5.498	5.618
1 1/4	4.383	4.516	4.648	4.781	4.914	5.047	5.180	5.313	5.445	5.578	5.711	5.844	5.977	6.109	6.242
1 1/8	4.821	4.967	5.113	5.259	5.405	5.552	5.698	5.844	5.990	6.136	6.282	6.428	6.574	6.720	6.866
1 1/2	5.259	5.419	5.578	5.738	5.897	6.056	6.216	6.375	6.534	6.694	6.853	7.013	7.172	7.331	7.491
1 3/8	5.698	5.870	6.043	6.216	6.388	6.561	6.734	6.906	7.079	7.252	7.424	7.597	7.770	7.942	8.115
1 1/4	6.136	6.322	6.508	6.694	6.880	7.066	7.252	7.438	7.623	7.809	7.995	8.181	8.367	8.553	8.739
1 1/8	6.574	6.773	6.973	7.172	7.371	7.570	7.770	7.969	8.168	8.367	8.566	8.766	8.965	9.164	9.363
1 1/2	7.013	7.225	7.438	7.650	7.863	8.075	8.288	8.500	8.713	8.925	9.138	9.350	9.563	9.775	9.988
1 3/8	7.889	8.128	8.367	8.606	8.845	9.084	9.323	9.563	9.802	10.041	10.280	10.519	10.758	10.997	11.236
1 1/4	8.766	9.031	9.297	9.563	9.828	10.094	10.359	10.625	10.891	11.156	11.422	11.688	11.953	12.219	12.484
1 1/8	9.642	9.934	10.227	10.519	10.811	11.103	11.395	11.688	11.980	12.272	12.564	12.856	13.148	13.441	13.733
1 1/2	10.519	10.838	11.156	11.475	11.794	12.113	12.431	12.750	13.069	13.388	13.706	14.025	14.344	14.663	14.981
1 3/8	11.395	11.741	12.086	12.431	12.777	13.122	13.467	13.813	14.158	14.503	14.848	15.194	15.539	15.884	16.230
1 1/4	12.272	12.644	13.016	13.388	13.759	14.131	14.503	14.875	15.247	15.619	15.991	16.363	16.734	17.106	17.478
1 1/8	13.148	13.547	13.945	14.344	14.742	15.141	15.539	15.938	16.336	16.734	17.133	17.531	17.930	18.328	18.727
2	14.025	14.450	14.875	15.300	15.725	16.150	16.575	17.000	17.425	17.850	18.275	18.700	19.125	19.550	19.975
2 1/8	14.902	15.353	15.805	16.256	16.708	17.159	17.611	18.063	18.514	18.966	19.417	19.869	20.320	20.772	21.223
2 1/4	15.778	16.256	16.734	17.213	17.691	18.169	18.647	19.125	19.603	20.081	20.559	21.038	21.516	21.994	22.472



# JONES & LAUGHLIN STEEL COMPANY

## Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	3	3 1/16	3 1/8	3 1/4	3 5/16	3 3/8	3 7/16	3 1/2	3 5/8	3 3/4	3 7/8	3 11/16	3 3/4	3 13/16	3 7/8	3 7/8
1/16	319	325	332	339	345	352	359	365	372	379	385	392	398	405	412	419
1/8	638	651	664	677	691	704	717	730	744	757	770	784	797	810	823	836
3/16	956	976	996	1016	1036	1056	1076	1096	1116	1136	1155	1175	1195	1215	1235	1255
1/4	1275	1302	1328	1355	1381	1408	1434	1461	1488	1514	1541	1567	1594	1620	1647	1674
5/16	1594	1627	1660	1693	1727	1760	1793	1826	1859	1893	1926	1959	1992	2025	2059	2092
3/8	1913	1952	1992	2032	2072	2112	2152	2191	2231	2271	2311	2351	2391	2430	2470	2509
7/16	2231	2278	2324	2371	2417	2464	2510	2557	2603	2649	2696	2742	2789	2836	2882	2928
1/2	2550	2603	2656	2709	2763	2816	2869	2922	2975	3028	3081	3134	3188	3241	3294	3347
5/8	3188	3254	3320	3387	3453	3520	3586	3652	3719	3785	3852	3918	3984	4051	4117	4183
3/4	3825	3905	3984	4064	4144	4223	4303	4383	4463	4542	4622	4702	4781	4861	4941	5020
7/8	4463	4555	4648	4741	4834	4927	5020	5113	5206	5299	5392	5485	5578	5671	5764	5857
1 1/8	5100	5206	5313	5419	5525	5631	5738	5844	5950	6056	6163	6269	6375	6481	6588	6694
1 1/4	5738	5857	5977	6096	6216	6335	6455	6574	6694	6813	6933	7052	7172	7291	7411	7530
1 1/2	6375	6508	6641	6773	6906	7039	7172	7305	7438	7570	7703	7836	7969	8102	8234	8367
1 3/4	7013	7159	7305	7451	7597	7743	7889	8035	8181	8327	8473	8620	8766	8912	9058	9204
2	7650	7809	7969	8128	8288	8447	8606	8766	8925	9084	9243	9403	9563	9722	9881	10040
2 1/8	8288	8460	8633	8805	8978	9151	9323	9496	9669	9841	10014	10187	10359	10532	10705	10878
2 1/4	8925	9111	9297	9483	9669	9855	10041	10227	10413	10598	10784	10970	11156	11342	11528	11714
2 1/2	9563	9762	9961	10160	10359	10559	10758	10957	11156	11355	11554	11754	11953	12152	12352	12551
2 3/4	10200	10413	10625	10838	11050	11263	11475	11688	11900	12113	12325	12538	12750	12963	13175	13388
3	11475	11714	11953	12192	12431	12670	12909	13148	13388	13627	13866	14105	14344	14583	14822	15061
3 1/8	12750	13016	13281	13547	13813	14078	14344	14609	14875	15141	15406	15672	15938	16204	16469	16735
3 1/4	14025	14317	14609	14902	15194	15486	15778	16070	16363	16655	16947	17239	17531	17823	18116	18408
3 1/2	15300	15619	15938	16256	16575	16894	17213	17531	17850	18169	18488	18806	19125	19444	19763	20082
3 3/4	16575	16920	17266	17611	17956	18301	18647	18992	19338	19683	20028	20373	20719	21064	21409	21754
4	17850	18228	18594	18969	19338	19709	20081	20453	20825	21197	21569	21941	22313	22684	23056	23428
4 1/8	19125	19523	19922	20320	20719	21117	21516	21914	22313	22711	23109	23508	23906	24305	24703	25102
4 1/4	20400	20825	21250	21675	22100	22525	22950	23375	23800	24225	24650	25075	25500	25925	26350	26775
4 1/2	21675	22128	22578	23028	23481	23933	24384	24836	25288	25739	26191	26642	27094	27545	27997	28448
4 3/4	22950	23428	23906	24384	24863	25341	25819	26297	26775	27253	27731	28209	28688	29166	29644	30122

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES															
	3 15/16	4	4 1/16	4 1/8	4 3/16	4 1/2	4 5/8	4 3/4	4 7/8	4 1/2	4 9/16	4 5/8	4 11/16	4 3/4	4 7/8	4 7/8
1/2	.418	.425	.432	.438	.445	.452	.458	.465	.471	.478	.485	.491	.498	.505	.518	.518
5/16	.837	.850	.863	.877	.890	.903	.916	.930	.943	.956	.970	.983	.996	1.009	1.036	1.036
3/8	1.255	1.275	1.295	1.315	1.335	1.355	1.375	1.395	1.414	1.434	1.454	1.474	1.494	1.514	1.554	1.554
1/2	1.673	1.700	1.727	1.753	1.780	1.806	1.833	1.859	1.886	1.913	1.939	1.966	1.992	2.019	2.072	2.072
5/8	2.092	2.125	2.158	2.191	2.225	2.258	2.291	2.324	2.357	2.391	2.424	2.457	2.490	2.523	2.590	2.590
3/4	2.510	2.550	2.590	2.630	2.670	2.709	2.749	2.789	2.829	2.869	2.909	2.948	2.988	3.028	3.108	3.108
7/8	2.929	2.975	3.021	3.068	3.114	3.161	3.207	3.254	3.300	3.347	3.393	3.440	3.486	3.533	3.626	3.626
1 1/8	3.347	3.400	3.453	3.506	3.559	3.613	3.666	3.719	3.772	3.825	3.878	3.931	3.984	4.038	4.144	4.144
1 1/4	4.184	4.250	4.316	4.383	4.449	4.516	4.582	4.648	4.715	4.781	4.848	4.914	4.980	5.047	5.180	5.180
1 3/8	5.020	5.100	5.180	5.259	5.339	5.419	5.498	5.578	5.658	5.738	5.817	5.897	5.977	6.056	6.216	6.216
1 1/2	5.857	5.950	6.043	6.136	6.229	6.322	6.415	6.508	6.601	6.694	6.787	6.880	6.973	7.066	7.252	7.252
1 3/4	6.694	6.800	6.906	7.013	7.119	7.225	7.331	7.438	7.544	7.650	7.756	7.863	7.969	8.075	8.288	8.288
2	7.531	7.650	7.770	7.889	8.009	8.128	8.248	8.367	8.487	8.606	8.726	8.845	8.965	9.084	9.323	9.323
2 1/8	8.367	8.500	8.633	8.766	8.898	9.031	9.164	9.297	9.430	9.563	9.695	9.828	9.961	10.094	10.359	10.359
2 1/4	9.204	9.350	9.496	9.642	9.788	9.934	10.080	10.227	10.373	10.519	10.665	10.811	10.957	11.103	11.395	11.395
2 3/4	10.041	10.200	10.359	10.519	10.678	10.838	10.997	11.156	11.316	11.475	11.634	11.794	11.953	12.113	12.431	12.431
3	10.877	11.050	11.223	11.395	11.568	11.741	11.913	12.086	12.259	12.431	12.604	12.777	12.949	13.122	13.467	13.467
3 1/8	11.714	11.900	12.086	12.272	12.458	12.644	12.830	13.016	13.202	13.388	13.573	13.759	13.945	14.131	14.503	14.503
3 1/4	12.551	12.750	12.949	13.148	13.348	13.548	13.746	13.945	14.144	14.344	14.543	14.742	14.941	15.141	15.539	15.539
3 3/4	13.388	13.600	13.813	14.025	14.238	14.450	14.663	14.875	15.088	15.300	15.513	15.725	15.938	16.150	16.575	16.575
4	15.061	15.300	15.539	15.778	16.017	16.256	16.495	16.734	16.973	17.213	17.452	17.691	17.930	18.169	18.647	18.647
4 1/8	16.734	17.000	17.266	17.531	17.797	18.063	18.328	18.594	18.859	19.125	19.391	19.656	19.922	20.188	20.719	20.719
4 1/4	18.408	18.700	18.992	19.284	19.577	19.869	20.161	20.453	20.745	21.038	21.330	21.622	21.914	22.206	22.791	22.791
4 1/2	20.081	20.400	20.719	21.038	21.356	21.675	21.994	22.313	22.632	22.950	23.269	23.588	23.906	24.225	24.863	24.863
5	21.755	22.100	22.445	22.791	23.136	23.481	23.827	24.172	24.517	24.863	25.208	25.553	25.898	26.244	26.934	26.934
5 1/8	23.428	23.800	24.172	24.544	24.916	25.288	25.659	26.031	26.403	26.775	27.147	27.519	27.891	28.263	29.000	29.000
5 1/4	25.102	25.500	25.898	26.297	26.695	27.094	27.492	27.891	28.289	28.688	29.086	29.484	29.883	30.281	31.078	31.078
5 1/2	26.775	27.200	27.625	28.050	28.475	28.900	29.325	29.750	30.175	30.600	31.025	31.450	31.875	32.300	33.150	33.150
6	28.448	28.900	29.352	29.803	30.255	30.706	31.158	31.609	32.061	32.513	32.964	33.416	33.867	34.319	35.222	35.222
6 1/8	30.122	30.600	31.078	31.556	32.034	32.513	32.991	33.469	33.947	34.425	34.903	35.381	35.859	36.338	37.294	37.294



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

WIDTH, INCHES

Thickness, Inches	5	5 1/8	5 1/4	5 1/2	5 5/8	5 3/4	5 7/8	6	6 1/8	6 1/4	6 3/8	6 1/2	6 5/8	6 3/4
1/16	.531	.545	.558	.571	.584	.598	.611	.624	.638	.651	.664	.677	.691	.717
1/8	1.063	1.089	1.116	1.142	1.169	1.195	1.222	1.248	1.275	1.302	1.328	1.355	1.381	1.434
3/16	1.594	1.634	1.673	1.713	1.753	1.793	1.833	1.873	1.913	1.952	1.992	2.032	2.112	2.152
1/2	2.125	2.178	2.231	2.284	2.338	2.391	2.444	2.497	2.550	2.603	2.656	2.709	2.763	2.869
5/16	2.656	2.723	2.789	2.855	2.922	2.988	3.055	3.121	3.188	3.254	3.320	3.387	3.453	3.586
3/8	3.188	3.267	3.347	3.427	3.506	3.586	3.666	3.745	3.825	3.905	3.984	4.064	4.144	4.308
7/16	3.719	3.812	3.905	3.998	4.091	4.184	4.277	4.370	4.463	4.555	4.648	4.741	4.834	5.020
1/2	4.250	4.356	4.463	4.569	4.675	4.781	4.888	4.994	5.100	5.206	5.313	5.419	5.525	5.738
5/8	5.313	5.445	5.578	5.711	5.844	5.977	6.109	6.242	6.375	6.508	6.641	6.773	6.906	7.172
3/4	6.375	6.534	6.694	6.853	7.013	7.172	7.331	7.491	7.650	7.809	7.969	8.128	8.288	8.606
7/8	7.438	7.623	7.809	7.995	8.181	8.367	8.553	8.739	8.925	9.111	9.297	9.483	9.669	10.041
1	8.500	8.713	8.925	9.138	9.350	9.563	9.775	9.988	10.200	10.413	10.625	10.838	11.050	11.475
9/16	9.563	9.802	10.041	10.280	10.519	10.758	10.997	11.236	11.475	11.714	11.953	12.192	12.431	12.909
5/8	10.625	10.891	11.156	11.422	11.688	11.953	12.219	12.484	12.750	13.016	13.281	13.547	13.813	14.344
11/16	11.688	11.980	12.272	12.564	12.856	13.148	13.441	13.733	14.025	14.317	14.609	14.902	15.194	15.778
3/4	12.750	13.069	13.388	13.706	14.025	14.344	14.663	14.981	15.300	15.619	15.938	16.256	16.575	17.213
13/16	13.813	14.158	14.503	14.848	15.194	15.539	15.884	16.230	16.575	16.920	17.266	17.611	17.956	18.647
7/8	14.875	15.247	15.619	15.991	16.363	16.734	17.106	17.478	17.850	18.222	18.594	18.966	19.338	19.709
15/16	15.938	16.336	16.734	17.133	17.531	17.930	18.328	18.727	19.125	19.523	19.922	20.320	20.719	21.117
1	17.000	17.425	17.850	18.275	18.700	19.125	19.550	19.975	20.400	20.825	21.250	21.675	22.100	22.525
1 1/16	19.125	19.603	20.081	20.559	21.038	21.516	21.994	22.472	22.950	23.428	23.906	24.384	24.863	25.341
1 1/8	21.250	21.781	22.313	22.844	23.375	23.906	24.438	24.969	25.500	26.031	26.563	27.094	27.625	28.156
1 1/4	23.375	23.959	24.544	25.128	25.713	26.297	26.881	27.466	28.050	28.634	29.219	29.803	30.388	30.973
1 1/2	25.500	26.138	26.775	27.413	28.050	28.688	29.325	29.963	30.600	31.238	31.875	32.513	33.150	33.787
1 3/8	27.625	28.316	29.006	29.697	30.388	31.078	31.769	32.459	33.150	33.841	34.531	35.222	35.913	36.603
1 1/2	29.750	30.494	31.238	31.981	32.725	33.468	34.213	34.956	35.700	36.444	37.188	37.931	38.675	39.419
1 5/8	31.875	32.672	33.469	34.266	35.063	35.859	36.656	37.453	38.250	39.047	39.844	40.641	41.438	42.234
2	34.000	34.850	35.700	36.550	37.400	38.250	39.100	39.950	40.800	41.650	42.500	43.350	44.200	45.050
2 1/8	36.125	37.028	37.931	38.834	39.738	40.641	41.544	42.447	43.350	44.253	45.156	46.059	46.963	47.866
2 1/4	38.250	39.206	40.163	41.119	42.075	43.031	43.988	44.944	45.900	46.856	47.813	48.769	49.725	50.681

# Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES														
	6 7/8	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4	7 7/8	8	8 1/8	8 1/4	8 3/8	8 1/2	8 5/8
1/4	7.30	7.44	7.57	7.70	7.84	7.97	8.10	8.23	8.37	8.50	8.63	8.77	8.90	9.03	9.16
1/8	1.461	1.488	1.514	1.541	1.567	1.594	1.620	1.647	1.673	1.700	1.727	1.753	1.780	1.806	1.833
3/16	2.191	2.231	2.271	2.311	2.351	2.391	2.430	2.470	2.510	2.550	2.590	2.630	2.670	2.709	2.749
1/2	2.922	2.975	3.028	3.081	3.134	3.188	3.241	3.294	3.347	3.400	3.453	3.506	3.559	3.613	3.666
5/16	3.652	3.719	3.785	3.852	3.918	3.984	4.051	4.117	4.184	4.250	4.316	4.383	4.449	4.516	4.582
3/8	4.383	4.462	4.542	4.622	4.702	4.781	4.861	4.941	5.020	5.100	5.180	5.259	5.339	5.419	5.498
7/16	5.113	5.206	5.299	5.392	5.485	5.578	5.671	5.764	5.857	5.950	6.043	6.136	6.229	6.322	6.415
1/2	5.844	5.950	6.056	6.163	6.269	6.375	6.481	6.588	6.694	6.800	6.906	7.013	7.119	7.225	7.331
5/8	7.305	7.438	7.570	7.703	7.836	7.969	8.102	8.234	8.367	8.500	8.633	8.766	8.898	9.031	9.164
3/4	8.766	8.925	9.084	9.244	9.403	9.563	9.722	9.881	10.041	10.200	10.359	10.519	10.678	10.838	10.997
7/8	10.227	10.413	10.598	10.784	10.970	11.156	11.342	11.528	11.714	11.900	12.086	12.272	12.458	12.644	12.830
1	11.688	11.900	12.113	12.325	12.538	12.750	12.963	13.175	13.388	13.600	13.813	14.025	14.238	14.450	14.663
1 1/8	13.148	13.388	13.627	13.866	14.105	14.344	14.583	14.822	15.061	15.300	15.539	15.778	16.017	16.256	16.495
1 1/4	14.609	14.875	15.141	15.406	15.672	15.938	16.203	16.469	16.734	17.000	17.266	17.531	17.797	18.063	18.328
1 1/2	16.070	16.363	16.655	16.947	17.239	17.531	17.823	18.116	18.408	18.700	18.992	19.284	19.577	19.869	20.161
1 3/4	17.531	17.850	18.169	18.488	18.806	19.125	19.444	19.763	20.081	20.400	20.719	21.038	21.356	21.675	21.994
1 7/8	18.992	19.338	19.683	20.028	20.373	20.719	21.064	21.409	21.755	22.100	22.445	22.791	23.136	23.481	23.827
2	20.453	20.825	21.197	21.569	21.941	22.313	22.684	23.056	23.428	23.800	24.172	24.544	24.916	25.288	25.659
2 1/8	21.914	22.313	22.711	23.109	23.508	23.906	24.305	24.703	25.102	25.500	25.898	26.297	26.695	27.094	27.492
2 1/4	23.375	23.800	24.225	24.650	25.075	25.500	25.925	26.350	26.775	27.200	27.625	28.050	28.475	28.900	29.325
2 1/2	26.297	26.775	27.253	27.731	28.209	28.688	29.166	29.644	30.122	30.600	31.078	31.556	32.034	32.513	32.991
2 3/4	29.219	29.750	30.281	30.813	31.344	31.875	32.406	32.938	33.469	34.000	34.531	35.063	35.594	36.125	36.656
2 7/8	32.141	32.725	33.309	33.894	34.478	35.063	35.647	36.231	36.816	37.400	37.984	38.569	39.153	39.738	40.322
3	35.063	35.700	36.338	36.975	37.613	38.250	38.888	39.525	40.163	40.800	41.438	42.075	42.713	43.350	43.988
3 1/8	37.984	38.675	39.366	40.056	40.747	41.438	42.128	42.819	43.509	44.200	44.891	45.581	46.272	46.963	47.653
3 1/4	40.906	41.650	42.394	43.138	43.881	44.625	45.369	46.113	46.856	47.600	48.344	49.088	49.831	50.575	51.319
3 1/2	43.828	44.625	45.422	46.219	47.016	47.813	48.609	49.406	50.203	51.000	51.797	52.594	53.391	54.188	54.984
3 3/4	46.750	47.600	48.450	49.300	50.150	51.000	51.850	52.700	53.550	54.400	55.250	56.100	56.950	57.800	58.650
3 7/8	49.672	50.575	51.478	52.381	53.284	54.188	55.091	55.994	56.897	57.800	58.703	59.606	60.509	61.413	62.316
4	52.594	53.550	54.506	55.463	56.419	57.375	58.331	59.288	60.244	61.200	62.156	63.113	64.069	65.025	65.981



## Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	8 3/4	8 7/8	9	9 1/8	9 1/4	9 3/8	9 1/2	9 5/8	9 3/4	10	10 1/4	10 1/2	10 3/4	11	11 1/4	
1/2	930	943	956	970	983	996	1,009	1,023	1,036	1,063	1,089	1,116	1,142	1,169	1,195	
5/16	1,859	1,886	1,913	1,939	1,966	1,992	2,019	2,045	2,072	2,125	2,178	2,231	2,284	2,338	2,391	
3/8	2,789	2,829	2,869	2,909	2,948	2,988	3,028	3,068	3,108	3,188	3,267	3,347	3,427	3,506	3,586	
7/16	3,719	3,772	3,825	3,878	3,931	3,984	4,038	4,091	4,144	4,250	4,356	4,463	4,569	4,675	4,781	
1/2	4,648	4,715	4,781	4,848	4,914	4,980	5,047	5,113	5,180	5,313	5,445	5,578	5,711	5,844	5,977	
5/8	5,578	5,658	5,738	5,817	5,897	5,977	6,056	6,136	6,216	6,375	6,534	6,694	6,853	7,013	7,172	
3/4	6,508	6,601	6,694	6,787	6,880	6,973	7,066	7,159	7,252	7,423	7,593	7,763	7,933	8,103	8,273	
7/8	7,438	7,544	7,650	7,756	7,863	7,969	8,075	8,181	8,288	8,500	8,713	8,925	9,138	9,350	9,563	
1	9,297	9,430	9,563	9,695	9,828	9,961	10,094	10,227	10,359	10,625	10,891	11,156	11,422	11,688	11,953	
1 1/8	11,156	11,316	11,475	11,634	11,794	11,953	12,113	12,272	12,431	12,750	13,069	13,388	13,706	14,025	14,344	
1 1/4	13,016	13,202	13,388	13,573	13,759	13,945	14,131	14,317	14,503	14,875	15,247	15,619	15,991	16,363	16,734	
1 1/2	14,875	15,088	15,300	15,513	15,725	15,938	16,150	16,363	16,575	17,000	17,425	17,850	18,275	18,700	19,125	
1 3/8	16,734	16,973	17,213	17,452	17,691	17,930	18,169	18,408	18,647	19,125	19,603	20,081	20,559	21,038	21,516	
1 1/2	18,594	18,859	19,125	19,391	19,656	19,922	20,188	20,453	20,719	21,250	21,781	22,313	22,844	23,375	23,906	
1 5/8	20,453	20,745	21,038	21,330	21,622	21,914	22,206	22,498	22,791	23,375	23,959	24,544	25,128	25,713	26,297	
1 7/8	22,313	22,631	22,950	23,269	23,588	23,906	24,225	24,544	24,863	25,500	26,138	26,775	27,413	28,050	28,688	
2	24,172	24,517	24,863	25,208	25,553	25,898	26,244	26,589	26,934	27,625	28,316	29,006	29,697	30,388	31,078	
2 1/8	26,031	26,403	26,775	27,147	27,519	27,891	28,263	28,634	29,006	29,750	30,494	31,238	31,981	32,725	33,469	
2 1/4	27,891	28,289	28,688	29,086	29,484	29,883	30,281	30,680	31,078	31,875	32,672	33,469	34,266	35,063	35,859	
2 3/8	29,750	30,175	30,600	31,025	31,450	31,875	32,300	32,725	33,150	34,000	34,850	35,700	36,550	37,400	38,250	
2 1/2	33,469	33,947	34,425	34,903	35,381	35,859	36,338	36,816	37,294	38,250	39,206	40,163	41,119	42,075	43,031	
2 5/8	37,188	37,719	38,250	38,781	39,313	39,844	40,375	40,906	41,438	42,500	43,563	44,625	45,688	46,750	47,813	
2 7/8	40,906	41,491	42,075	42,659	43,244	43,828	44,413	44,997	45,581	46,750	47,919	49,088	50,256	51,425	52,594	
3	44,625	45,263	45,900	46,538	47,175	47,813	48,450	49,088	49,725	51,000	52,275	53,550	54,825	56,100	57,375	
3 1/8	48,344	49,034	49,725	50,416	51,106	51,797	52,488	53,178	53,869	55,250	56,631	58,013	59,394	60,775	62,156	
3 1/4	52,063	52,806	53,550	54,294	55,038	55,781	56,525	57,269	58,013	59,500	60,988	62,475	63,963	65,450	66,938	
3 1/2	55,781	56,578	57,375	58,172	58,969	59,766	60,563	61,359	62,156	63,344	64,531	65,718	66,905	68,092	69,279	
3 3/8	59,500	60,350	61,200	62,050	62,900	63,750	64,600	65,450	66,300	68,000	69,700	71,400	73,100	74,800	76,500	
3 1/2	63,219	64,122	65,025	65,928	66,831	67,734	68,638	69,541	70,444	72,250	74,056	75,863	77,669	79,475	81,281	
3 5/8	66,938	67,894	68,850	69,806	70,763	71,719	72,675	73,631	74,588	76,500	78,413	80,325	82,238	84,150	86,063	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	11½	11¾	12	12¼	12½	12¾	13	13¼	13½	13¾	14	14¼	14½	14¾	15	
$\frac{1}{4}$	1.222	1.248	1.275	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
$\frac{5}{16}$	2.444	2.497	2.550	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
$\frac{3}{8}$	3.666	3.745	3.825	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
$\frac{1}{2}$	4.888	4.994	5.100	5.21	5.31	5.42	5.53	5.63	5.74	5.84	5.95	6.06	6.16	6.27	6.38	
$\frac{5}{8}$	6.109	6.242	6.375	6.51	6.64	6.77	6.91	7.04	7.17	7.30	7.44	7.57	7.70	7.84	7.97	
$\frac{7}{8}$	7.331	7.491	7.650	7.81	7.97	8.13	8.29	8.45	8.61	8.77	8.93	9.08	9.24	9.40	9.56	
$1\frac{1}{8}$	8.553	8.739	8.925	9.11	9.30	9.48	9.67	9.85	10.04	10.23	10.41	10.60	10.78	10.97	11.16	
$1\frac{1}{4}$	9.775	9.988	10.200	10.41	10.63	10.84	11.05	11.26	11.48	11.69	11.90	12.11	12.33	12.54	12.75	
$1\frac{1}{2}$	12.219	12.484	12.750	13.02	13.28	13.55	13.81	14.08	14.34	14.61	14.88	15.14	15.41	15.67	15.94	
$1\frac{3}{8}$	14.663	14.981	15.300	15.62	15.94	16.26	16.58	16.89	17.21	17.53	17.85	18.17	18.49	18.81	19.13	
$1\frac{1}{2}$	17.106	17.478	17.850	18.22	18.59	18.97	19.34	19.71	20.08	20.45	20.83	21.20	21.57	21.94	22.31	
$1\frac{3}{4}$	19.550	19.975	20.400	20.83	21.25	21.68	22.10	22.53	22.95	23.38	23.80	24.23	24.65	25.08	25.50	
$2\frac{1}{8}$	21.994	22.472	22.950	23.43	23.91	24.38	24.86	25.34	25.82	26.30	26.78	27.25	27.73	28.21	28.69	
$2\frac{1}{4}$	24.438	24.969	25.500	26.03	26.56	27.09	27.63	28.16	28.69	29.22	29.75	30.28	30.81	31.34	31.88	
$2\frac{1}{2}$	26.881	27.466	28.050	28.63	29.22	29.80	30.39	30.97	31.56	32.14	32.73	33.31	33.89	34.48	35.06	
$2\frac{3}{4}$	29.325	29.963	30.600	31.24	31.88	32.51	33.15	33.79	34.43	35.06	35.70	36.34	36.98	37.61	38.25	
$3$	31.769	32.459	33.150	33.84	34.53	35.22	35.91	36.60	37.29	37.98	38.68	39.37	40.06	40.75	41.44	
$3\frac{1}{8}$	34.213	34.956	35.700	36.44	37.19	37.93	38.68	39.42	40.16	40.91	41.65	42.39	43.14	43.88	44.63	
$3\frac{1}{4}$	36.656	37.453	38.250	39.05	39.84	40.64	41.44	42.23	43.03	43.83	44.63	45.42	46.22	47.02	47.81	
$3\frac{1}{2}$	39.100	39.950	40.800	41.65	42.50	43.35	44.20	45.05	45.90	46.75	47.60	48.45	49.30	50.15	51.00	
$3\frac{3}{4}$	43.988	44.944	45.900	46.86	47.81	48.77	49.73	50.68	51.64	52.59	53.55	54.51	55.46	56.42	57.38	
$4$	48.875	49.938	51.000	52.06	53.13	54.19	55.25	56.31	57.38	58.44	59.50	60.56	61.63	62.69	63.75	
$4\frac{1}{8}$	53.763	54.931	56.100	57.27	58.44	59.61	60.78	61.95	63.12	64.28	65.45	66.62	67.79	68.96	70.13	
$4\frac{1}{4}$	58.650	59.925	61.200	62.48	63.75	65.03	66.30	67.58	68.85	70.13	71.40	72.68	73.95	75.23	76.50	
$4\frac{1}{2}$	63.538	64.919	66.300	67.68	69.06	70.44	71.83	73.21	74.59	75.97	77.35	78.73	80.11	81.49	82.88	
$4\frac{3}{4}$	68.425	69.913	71.400	72.89	74.38	75.86	77.35	78.84	80.33	81.81	83.30	84.79	86.28	87.76	89.25	
$5$	73.313	74.906	76.500	78.09	79.69	81.28	82.88	84.47	86.06	87.66	89.25	90.84	92.44	94.03	95.63	
$5\frac{1}{8}$	78.200	79.900	81.600	83.30	85.00	86.70	88.40	90.10	91.80	93.50	95.20	96.90	98.60	100.30	102.00	
$5\frac{1}{4}$	83.088	84.894	86.700	88.51	90.31	92.12	93.93	95.73	97.54	99.34	101.15	102.96	104.76	106.57	108.38	
$5\frac{1}{2}$	87.975	89.888	91.800	93.71	95.63	97.54	99.45	101.36	103.28	105.19	107.10	109.01	110.93	112.84	114.75	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES													
	15 1/4	15 1/2	15 3/4	16	16 1/4	16 1/2	16 3/4	17	17 1/4	17 1/2	17 3/4	18	18 1/4	18 1/2
1/8	6.48	6.59	6.69	6.80	6.91	7.01	7.12	7.23	7.33	7.44	7.54	7.65	7.76	7.86
5/16	8.10	8.23	8.37	8.50	8.63	8.77	8.90	9.03	9.16	9.30	9.43	9.56	9.70	9.83
3/8	9.72	9.88	10.04	10.20	10.36	10.52	10.68	10.84	11.00	11.16	11.32	11.48	11.63	11.79
7/16	11.34	11.53	11.71	11.90	12.09	12.27	12.46	12.64	12.83	13.02	13.20	13.39	13.57	13.76
1/2	12.96	13.18	13.39	13.60	13.81	14.03	14.24	14.45	14.66	14.88	15.09	15.30	15.51	15.73
5/8	16.20	16.47	16.73	17.00	17.27	17.53	17.80	18.06	18.33	18.59	18.86	19.13	19.39	19.66
3/4	19.44	19.76	20.08	20.40	20.72	21.04	21.36	21.68	21.99	22.31	22.63	22.95	23.27	23.59
7/8	22.68	23.06	23.43	23.80	24.17	24.54	24.92	25.29	25.66	26.03	26.40	26.78	27.15	27.52
1	25.93	26.35	26.78	27.20	27.63	28.05	28.48	28.90	29.33	29.75	30.18	30.60	31.03	31.45
1 1/8	29.17	29.64	30.12	30.60	31.08	31.56	32.03	32.51	32.99	33.47	33.95	34.43	34.90	35.38
1 1/4	32.41	32.94	33.47	34.00	34.53	35.06	35.59	36.13	36.66	37.19	37.72	38.25	38.78	39.31
1 1/2	35.65	36.23	36.82	37.40	37.98	38.57	39.15	39.74	40.32	40.91	41.49	42.08	42.66	43.24
1 3/4	38.89	39.53	40.16	40.80	41.44	42.08	42.71	43.35	43.99	44.63	45.26	45.90	46.54	47.18
1 7/8	42.13	42.82	43.51	44.20	44.89	45.58	46.27	46.96	47.65	48.34	49.03	49.73	50.42	51.11
2	45.37	46.11	46.86	47.60	48.34	49.09	49.83	50.58	51.32	52.06	52.81	53.55	54.29	55.04
2 1/8	48.61	49.41	50.20	51.00	51.80	52.59	53.39	54.19	54.98	55.78	56.58	57.38	58.17	58.97
2 1/4	51.85	52.70	53.55	54.40	55.25	56.10	56.95	57.80	58.65	59.50	60.35	61.20	62.05	62.90
2 1/2	55.09	55.99	56.89	57.79	58.69	59.59	60.49	61.39	62.29	63.19	64.09	64.99	65.89	66.79
2 3/4	58.33	59.29	60.24	61.20	62.16	63.11	64.07	65.03	65.98	66.94	67.89	68.85	69.81	70.76
2 7/8	61.57	62.59	63.61	64.63	65.65	66.67	67.69	68.71	69.73	70.75	71.77	72.79	73.81	74.83
3	64.81	65.88	66.94	68.00	69.06	70.13	71.19	72.25	73.31	74.38	75.44	76.50	77.56	78.63
3 1/8	68.05	69.17	70.29	71.41	72.53	73.65	74.77	75.89	77.01	78.13	79.25	80.37	81.49	82.61
3 1/4	71.29	72.46	73.63	74.80	75.97	77.14	78.31	79.48	80.64	81.81	82.98	84.15	85.32	86.49
3 1/2	74.53	75.75	76.97	78.19	79.41	80.63	81.85	83.07	84.29	85.51	86.73	87.95	89.17	90.39
3 3/4	77.77	79.05	80.33	81.60	82.88	84.15	85.43	86.70	87.98	89.25	90.53	91.80	93.08	94.35
3 7/8	81.01	82.34	83.67	85.00	86.33	87.65	88.98	90.31	91.64	92.97	94.29	95.62	96.95	98.28
4	84.26	85.64	87.02	88.40	89.78	91.16	92.54	93.93	95.31	96.69	98.07	99.45	100.83	102.21
4 1/8	87.50	88.93	90.36	91.79	93.22	94.65	96.08	97.51	98.94	100.37	101.80	103.23	104.66	106.09
4 1/4	90.74	92.23	93.71	95.20	96.69	98.18	99.66	101.15	102.64	104.13	105.61	107.10	108.59	110.08
4 1/2	93.98	95.51	97.04	98.57	100.10	101.63	103.16	104.69	106.22	107.75	109.28	110.81	112.34	113.87
4 3/4	97.22	98.81	100.41	102.00	103.59	105.19	106.78	108.38	109.97	111.56	113.16	114.75	116.34	117.94
4 7/8	100.46	102.11	103.76	105.41	107.06	108.71	110.36	112.01	113.66	115.31	116.96	118.61	120.26	121.91
5	103.70	105.40	107.10	108.80	110.50	112.20	113.90	115.60	117.30	119.00	120.70	122.40	124.10	125.80
5 1/8	106.94	108.74	110.54	112.34	114.14	115.94	117.74	119.54	121.34	123.14	124.94	126.74	128.54	130.34
5 1/4	110.18	111.99	113.79	115.60	117.41	119.21	121.02	122.83	124.63	126.44	128.24	130.05	131.86	133.66
5 1/2	113.42	115.28	117.14	119.00	120.86	122.72	124.58	126.44	128.30	130.16	132.02	133.88	135.74	137.60
5 3/4	116.66	118.58	120.49	122.40	124.31	126.23	128.14	130.05	131.96	133.88	135.79	137.70	139.61	141.53
5 7/8	119.90	121.86	123.81	125.76	127.71	129.66	131.61	133.56	135.51	137.46	139.41	141.36	143.31	145.26



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	19	19 1/4	19 1/2	19 3/4	20	20 1/4	20 1/2	20 3/4	21	21 1/4	21 1/2	21 3/4	22	22 1/4	22 1/2
1/8	8.08	8.18	8.29	8.39	8.50	8.61	8.71	8.82	8.93	9.03	9.14	9.24	9.35	9.46	9.56
5/16	10.09	10.23	10.36	10.49	10.63	10.76	10.89	11.02	11.16	11.29	11.42	11.55	11.69	11.82	11.95
3/8	12.11	12.27	12.43	12.59	12.75	12.91	13.07	13.23	13.39	13.55	13.71	13.87	14.03	14.18	14.34
7/16	14.13	14.32	14.50	14.69	14.88	15.06	15.25	15.43	15.62	15.80	15.99	16.18	16.36	16.55	16.73
1/2	16.15	16.36	16.58	16.79	17.00	17.21	17.43	17.64	17.85	18.06	18.28	18.49	18.70	18.91	19.13
5/8	20.19	20.45	20.72	20.98	21.25	21.52	21.78	22.05	22.31	22.58	22.84	23.11	23.38	23.64	23.91
3/4	24.23	24.54	24.86	25.18	25.50	25.82	26.14	26.46	26.78	27.09	27.41	27.73	28.05	28.37	28.69
7/8	28.26	28.63	29.01	29.38	29.75	30.12	30.49	30.87	31.24	31.61	31.98	32.35	32.73	33.10	33.47
1 1/8	32.30	32.73	33.15	33.58	34.00	34.43	34.85	35.28	35.70	36.13	36.55	36.98	37.40	37.83	38.25
1 1/4	36.34	36.82	37.29	37.77	38.25	38.73	39.21	39.68	40.16	40.64	41.12	41.60	42.08	42.55	43.03
1 1/2	40.38	40.91	41.44	41.97	42.50	43.03	43.56	44.09	44.63	45.16	45.69	46.22	46.75	47.28	47.81
1 3/8	44.41	45.00	45.58	46.17	46.75	47.33	47.92	48.50	49.09	49.67	50.26	50.84	51.43	52.01	52.59
1 1/2	48.45	49.09	49.73	50.36	51.00	51.64	52.28	52.91	53.55	54.19	54.83	55.46	56.10	56.74	57.38
1 5/8	52.49	53.18	53.87	54.56	55.25	55.94	56.63	57.32	58.01	58.70	59.39	60.08	60.78	61.47	62.16
1 3/4	56.53	57.27	58.01	58.76	59.50	60.24	60.99	61.73	62.48	63.22	63.96	64.71	65.45	66.19	66.94
1 7/8	60.56	61.36	62.16	62.95	63.75	64.55	65.34	66.14	66.94	67.73	68.53	69.33	70.13	70.92	71.72
2	64.60	65.45	66.30	67.15	68.00	68.85	69.70	70.55	71.40	72.25	73.10	73.95	74.80	75.65	76.50
2 1/8	72.68	73.63	74.59	75.54	76.50	77.46	78.41	79.37	80.33	81.28	82.24	83.19	84.15	85.11	86.06
2 1/4	80.75	81.81	82.88	83.94	85.00	86.06	87.13	88.19	89.25	90.31	91.38	92.44	93.50	94.56	95.63
2 3/8	88.83	89.99	91.16	92.33	93.50	94.67	95.84	97.01	98.18	99.34	100.51	101.68	102.85	104.02	105.19
2 1/2	96.90	98.18	99.45	100.73	102.00	103.28	104.55	105.83	107.10	108.38	109.65	110.93	112.20	113.48	114.75
2 5/8	104.98	106.36	107.74	109.12	110.50	111.88	113.26	114.64	116.03	117.41	118.79	120.17	121.55	122.93	124.31
2 3/4	113.05	114.54	116.03	117.51	119.00	120.49	121.98	123.46	124.95	126.44	127.93	129.41	130.90	132.39	133.88
2 7/8	121.13	122.72	124.31	125.91	127.50	129.09	130.69	132.28	133.88	135.47	137.06	138.66	140.25	141.84	143.44
3	129.20	130.90	132.60	134.30	136.00	137.70	139.40	141.10	142.80	144.50	146.20	147.90	149.60	151.30	153.00
3 1/8	137.28	139.08	140.89	142.69	144.50	146.31	148.11	149.92	151.73	153.53	155.34	157.14	158.95	160.76	162.56
3 1/4	145.35	147.26	149.18	151.09	153.00	154.91	156.83	158.74	160.65	162.56	164.48	166.39	168.30	170.21	172.13



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	22 3/4	23	23 1/4	23 1/2	23 3/4	24	24 1/4	24 1/2	24 3/4	25	25 1/4	25 1/2	25 3/4	26	26 1/4
1/8	9.67	9.78	9.88	9.99	10.09	10.20	10.31	10.41	10.52	10.63	10.73	10.84	10.94	11.05	11.16
5/16	12.09	12.22	12.35	12.48	12.62	12.75	12.88	13.02	13.15	13.28	13.41	13.55	13.68	13.81	13.95
3/8	14.50	14.62	14.75	14.88	15.01	15.14	15.27	15.40	15.53	15.66	15.79	15.92	16.05	16.18	16.31
7/16	16.92	17.11	17.29	17.48	17.66	17.85	18.02	18.21	18.41	18.59	18.78	18.97	19.15	19.34	19.52
1/2	19.34	19.55	19.76	19.98	20.19	20.40	20.61	20.83	21.04	21.25	21.46	21.68	21.89	22.10	22.31
5/8	24.17	24.44	24.70	24.97	25.23	25.50	25.77	26.03	26.30	26.56	26.83	27.09	27.36	27.63	27.89
3/4	29.01	29.33	29.64	29.96	30.28	30.60	30.92	31.24	31.56	31.88	32.19	32.51	32.83	33.15	33.47
7/8	33.84	34.21	34.58	34.96	35.33	35.70	36.07	36.44	36.82	37.19	37.56	37.93	38.30	38.68	39.05
1 1/16	38.68	39.10	39.53	39.95	40.38	40.80	41.23	41.65	42.08	42.50	42.93	43.35	43.78	44.20	44.63
1 1/8	43.51	43.99	44.47	44.94	45.42	45.90	46.38	46.86	47.33	47.81	48.29	48.77	49.25	49.73	50.20
1 1/4	48.34	48.88	49.41	49.94	50.47	51.00	51.53	52.06	52.59	53.13	53.66	54.19	54.72	55.25	55.78
1 1/2	53.18	53.76	54.35	54.93	55.52	56.10	56.68	57.27	57.85	58.44	59.02	59.61	60.19	60.78	61.36
1 3/8	58.01	58.65	59.29	59.93	60.56	61.20	61.84	62.48	63.11	63.75	64.39	65.03	65.66	66.30	66.94
1 7/8	62.85	63.54	64.23	64.92	65.61	66.30	66.99	67.68	68.37	69.06	69.75	70.44	71.13	71.83	72.52
2	67.68	68.43	69.17	69.91	70.66	71.40	72.14	72.89	73.63	74.38	75.12	75.86	76.61	77.35	78.09
2 1/8	72.52	73.31	74.11	74.91	75.70	76.50	77.30	78.09	78.89	79.69	80.48	81.28	82.08	82.88	83.67
2 1/4	77.35	78.20	79.05	79.90	80.75	81.60	82.45	83.30	84.15	85.00	85.85	86.70	87.55	88.40	89.25
2 3/8	82.18	83.08	83.98	84.88	85.78	86.68	87.58	88.48	89.38	90.28	91.18	92.08	92.98	93.88	94.78
2 1/2	87.02	87.98	88.93	89.89	90.84	91.80	92.76	93.71	94.67	95.63	96.58	97.54	98.49	99.45	100.41
2 5/8	91.85	92.86	93.87	94.88	95.89	96.90	97.91	98.92	99.93	100.94	101.95	102.96	103.97	104.98	105.99
2 3/4	96.69	97.75	98.81	99.88	100.94	102.00	103.06	104.13	105.19	106.25	107.31	108.38	109.44	110.50	111.56
2 7/8	101.52	102.63	103.74	104.85	105.96	107.07	108.18	109.29	110.40	111.51	112.62	113.73	114.84	115.95	117.06
3	106.36	107.53	108.69	109.86	111.03	112.20	113.37	114.54	115.71	116.88	118.04	119.21	120.38	121.55	122.72
3 1/8	111.20	112.42	113.64	114.86	116.08	117.30	118.52	119.74	120.96	122.18	123.40	124.62	125.84	127.06	128.28
3 1/4	116.03	117.30	118.58	119.85	121.13	122.40	123.68	124.95	126.23	127.50	128.78	130.05	131.33	132.60	133.88
3 1/2	120.86	122.18	123.50	124.82	126.14	127.46	128.78	130.10	131.42	132.74	134.06	135.38	136.70	138.02	139.34
3 3/8	125.69	127.06	128.43	129.80	131.17	132.54	133.91	135.28	136.65	138.02	139.39	140.76	142.13	143.50	144.87
3 1/4	130.52	131.94	133.36	134.78	136.20	137.62	139.04	140.46	141.88	143.30	144.72	146.14	147.56	148.98	150.40
3 1/2	135.36	136.85	138.34	139.83	141.31	142.80	144.29	145.78	147.26	148.75	150.24	151.73	153.21	154.70	156.19
3 3/4	140.20	141.74	143.28	144.81	146.34	147.87	149.40	150.93	152.46	153.99	155.52	157.05	158.58	160.11	161.64
3 7/8	145.03	146.63	148.22	149.81	151.41	153.00	154.59	156.19	157.78	159.37	160.96	162.55	164.14	165.73	167.32
4	150.00	151.64	153.28	154.91	156.54	158.17	159.80	161.43	163.06	164.69	166.32	167.95	169.58	171.21	172.84
4 1/8	154.70	156.40	158.10	159.80	161.50	163.20	164.90	166.60	168.30	170.00	171.70	173.40	175.10	176.80	178.50
4 1/4	159.40	161.16	162.92	164.68	166.44	168.20	169.96	171.72	173.48	175.24	177.00	178.76	180.52	182.28	184.04
4 1/2	164.37	166.18	167.98	169.79	171.59	173.40	175.21	177.01	178.82	180.63	182.43	184.24	186.04	187.85	189.66
4 3/8	169.24	171.09	172.93	174.77	176.61	178.45	180.29	182.13	183.97	185.81	187.65	189.49	191.33	193.17	195.01
4 1/2	174.04	175.95	177.86	179.78	181.69	183.60	185.51	187.43	189.34	191.25	193.16	195.08	196.99	198.90	200.81

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES														
	26 1/2	26 3/4	27	27 1/4	27 1/2	27 3/4	28	28 1/4	28 1/2	28 3/4	29	29 1/4	29 1/2	29 3/4	30
1/8	11.26	11.37	11.48	11.58	11.69	11.79	11.90	12.01	12.11	12.22	12.33	12.43	12.54	12.64	12.75
5/32	14.08	14.21	14.34	14.48	14.61	14.74	14.88	15.01	15.14	15.27	15.41	15.54	15.67	15.80	15.94
3/16	16.89	17.05	17.21	17.37	17.53	17.69	17.85	18.01	18.17	18.33	18.49	18.65	18.81	18.97	19.13
7/32	19.71	19.90	20.08	20.27	20.45	20.64	20.83	21.01	21.20	21.38	21.57	21.75	21.94	22.13	22.31
1/2	22.53	22.74	22.95	23.16	23.38	23.59	23.80	24.01	24.23	24.44	24.65	24.86	25.08	25.29	25.50
5/16	28.16	28.42	28.69	28.95	29.22	29.48	29.75	30.02	30.28	30.55	30.81	31.08	31.34	31.61	31.88
3/8	33.79	34.11	34.43	34.74	35.06	35.38	35.70	36.02	36.34	36.66	36.98	37.29	37.61	37.93	38.25
7/16	39.42	39.79	40.16	40.53	40.91	41.28	41.65	42.02	42.39	42.77	43.14	43.51	43.88	44.25	44.63
1	45.05	45.48	45.90	46.33	46.75	47.18	47.60	48.03	48.45	48.88	49.30	49.73	50.15	50.58	51.00
9/16	50.68	51.16	51.64	52.12	52.59	53.07	53.55	54.03	54.51	54.98	55.46	55.94	56.42	56.90	57.38
5/8	56.31	56.84	57.38	57.91	58.44	58.97	59.50	60.03	60.56	61.09	61.63	62.16	62.69	63.22	63.75
11/16	61.94	62.53	63.11	63.70	64.28	64.87	65.45	66.03	66.62	67.20	67.79	68.37	68.96	69.54	70.13
3/4	67.58	68.21	68.85	69.49	70.13	70.76	71.40	72.04	72.68	73.31	73.95	74.59	75.23	75.86	76.50
13/16	73.21	73.90	74.59	75.28	75.97	76.66	77.35	78.04	78.73	79.42	80.11	80.80	81.49	82.18	82.88
7/8	78.84	79.58	80.33	81.07	81.81	82.56	83.30	84.04	84.79	85.53	86.28	87.02	87.76	88.51	89.25
15/16	84.47	85.27	86.06	86.86	87.66	88.45	89.25	90.05	90.84	91.64	92.44	93.23	94.03	94.83	95.63
1	90.10	90.95	91.80	92.65	93.50	94.35	95.20	96.05	96.90	97.75	98.60	99.45	100.30	101.15	102.00
1 1/8	101.36	102.32	103.28	104.23	105.19	106.14	107.10	108.06	109.01	109.97	110.93	111.88	112.84	113.79	114.75
1 1/4	112.63	113.69	114.75	115.81	116.88	117.94	119.00	120.06	121.13	122.19	123.25	124.31	125.38	126.44	127.50
1 1/2	123.89	125.06	126.23	127.39	128.56	129.73	130.90	132.07	133.24	134.41	135.58	136.74	137.91	139.08	140.25
1 3/4	135.15	136.43	137.70	138.98	140.25	141.53	142.80	144.08	145.35	146.63	147.90	149.18	150.45	151.73	153.00
1 5/8	146.41	147.79	149.18	150.56	151.94	153.32	154.70	156.08	157.46	158.84	160.23	161.61	162.99	164.37	165.75
1 3/4	157.68	159.16	160.65	162.14	163.63	165.11	166.60	168.09	169.58	171.06	172.55	174.04	175.53	177.01	178.50
1 7/8	168.94	170.53	172.13	173.72	175.31	176.91	178.50	180.09	181.69	183.28	184.88	186.47	188.06	189.66	191.25
2	180.20	181.90	183.60	185.30	187.00	188.70	190.40	192.10	193.80	195.50	197.20	198.90	200.60	202.30	204.00
2 1/8	191.46	193.27	195.08	196.88	198.69	200.49	202.30	204.11	205.91	207.72	209.53	211.33	213.14	214.94	216.75
2 1/4	202.73	204.64	206.55	208.46	210.38	212.29	214.20	216.11	218.03	219.94	221.85	223.76	225.68	227.59	229.50

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														33 3/4
	30 1/4	30 1/2	30 3/4	31	31 1/4	31 1/2	31 3/4	32	32 1/4	32 1/2	32 3/4	33	33 1/4	33 1/2	
1/8	12.86	12.96	13.07	13.18	13.28	13.39	13.49	13.60	13.71	13.81	13.92	14.03	14.13	14.24	14.34
5/16	16.07	16.20	16.34	16.47	16.60	16.73	16.87	17.00	17.13	17.27	17.40	17.53	17.66	17.80	17.93
3/8	19.28	19.44	19.60	19.76	19.92	20.08	20.24	20.40	20.56	20.72	20.88	21.04	21.20	21.36	21.52
7/16	22.50	22.68	22.87	23.06	23.24	23.43	23.61	23.80	23.99	24.17	24.36	24.54	24.73	24.92	25.10
1/2	25.71	25.93	26.14	26.35	26.56	26.78	26.99	27.20	27.41	27.63	27.84	28.05	28.26	28.48	28.69
5/8	32.14	32.41	32.67	32.94	33.20	33.47	33.73	34.00	34.27	34.53	34.80	35.06	35.33	35.59	35.86
3/4	38.57	38.89	39.21	39.53	39.84	40.16	40.48	40.80	41.12	41.44	41.76	42.08	42.39	42.71	43.03
7/8	45.00	45.37	45.74	46.11	46.48	46.86	47.23	47.60	47.97	48.34	48.72	49.09	49.46	49.83	50.20
1 1/8	51.43	51.85	52.28	52.70	53.13	53.55	53.98	54.40	54.83	55.25	55.68	56.10	56.53	56.95	57.38
1 1/4	57.85	58.33	58.81	59.29	59.77	60.24	60.72	61.20	61.68	62.16	62.63	63.11	63.59	64.07	64.55
1 1/2	64.28	64.81	65.34	65.88	66.41	66.94	67.47	68.00	68.53	69.06	69.59	70.13	70.66	71.19	71.72
1 3/4	70.71	71.29	71.88	72.46	73.05	73.63	74.22	74.80	75.38	75.97	76.55	77.14	77.72	78.31	78.89
1 7/8	77.14	77.78	78.41	79.05	79.69	80.33	80.96	81.60	82.24	82.88	83.51	84.15	84.79	85.43	86.06
2	83.57	84.26	84.95	85.64	86.33	87.02	87.71	88.40	89.09	89.78	90.47	91.16	91.85	92.54	93.23
2 1/8	89.99	90.74	91.48	92.23	92.97	93.71	94.46	95.20	95.94	96.69	97.43	98.18	98.92	99.66	100.41
2 1/4	96.42	97.22	98.02	98.81	99.61	100.41	101.20	102.00	102.80	103.59	104.39	105.19	105.98	106.78	107.58
2 3/8	102.85	103.70	104.55	105.40	106.25	107.10	107.95	108.80	109.65	110.50	111.35	112.20	113.05	113.90	114.75
2 1/2	115.71	116.66	117.62	118.58	119.53	120.49	121.44	122.40	123.36	124.31	125.27	126.22	127.18	128.14	129.09
2 5/8	128.56	129.63	130.69	131.75	132.81	133.88	134.94	136.00	137.06	138.13	139.19	140.25	141.31	142.38	143.44
2 3/4	141.42	142.59	143.76	144.93	146.09	147.26	148.43	149.60	150.77	151.94	153.11	154.28	155.44	156.61	157.78
2 7/8	154.28	155.55	156.83	158.10	159.38	160.65	161.93	163.20	164.48	165.75	167.03	168.30	169.58	170.85	172.13
3	167.13	168.51	169.89	171.28	172.66	174.04	175.42	176.80	178.18	179.56	180.94	182.33	183.71	185.09	186.47
3 1/8	179.99	181.48	182.96	184.45	185.94	187.43	188.91	190.40	191.89	193.38	194.86	196.35	197.84	199.33	200.81
3 1/4	192.84	194.44	196.03	197.63	199.22	200.81	202.41	204.00	205.59	207.19	208.78	210.38	211.97	213.56	215.16
3 1/2	205.70	207.40	209.10	210.80	212.50	214.20	215.90	217.60	219.30	221.00	222.70	224.40	226.10	227.80	229.50
3 3/4	218.56	220.36	222.17	223.98	225.78	227.59	229.39	231.20	233.01	234.81	236.62	238.43	240.23	242.04	243.84
3 7/8	231.41	233.33	235.24	237.15	239.06	240.98	242.89	244.80	246.71	248.63	250.54	252.45	254.36	256.28	258.19



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	34	34 1/4	34 1/2	34 3/4	35	35 1/4	35 1/2	35 3/4	36	36 1/4	36 1/2	36 3/4	37	37 1/4	37 1/2
1/8	14.45	14.56	14.66	14.77	14.88	14.98	15.09	15.19	15.30	15.41	15.51	15.62	15.73	15.83	15.94
5/32	18.06	18.20	18.33	18.46	18.59	18.73	18.86	18.99	19.13	19.26	19.39	19.52	19.66	19.79	19.92
3/16	21.68	21.83	21.99	22.15	22.31	22.47	22.63	22.79	22.95	23.11	23.27	23.43	23.59	23.75	23.91
7/16	25.29	25.47	25.66	25.85	26.03	26.22	26.40	26.59	26.78	26.96	27.15	27.33	27.52	27.70	27.89
1/2	28.90	29.11	29.33	29.54	29.75	29.96	30.18	30.39	30.60	30.81	31.03	31.24	31.45	31.66	31.88
5/16	36.13	36.39	36.66	36.92	37.19	37.45	37.72	37.98	38.25	38.52	38.78	39.05	39.31	39.58	39.84
3/8	43.35	43.67	43.99	44.31	44.63	44.94	45.26	45.58	45.90	46.22	46.54	46.86	47.18	47.49	47.81
7/8	50.58	50.95	51.32	51.69	52.06	52.43	52.81	53.18	53.55	53.92	54.29	54.67	55.04	55.41	55.78
1 1/16	57.80	58.23	58.65	59.08	59.50	59.93	60.35	60.78	61.20	61.63	62.05	62.48	62.90	63.33	63.75
1 1/8	65.03	65.50	65.98	66.46	66.94	67.42	67.89	68.37	68.85	69.33	69.81	70.28	70.76	71.24	71.72
1 1/4	72.25	72.78	73.31	73.84	74.38	74.91	75.44	75.97	76.50	77.03	77.56	78.09	78.63	79.16	79.69
1 3/8	79.48	80.06	80.64	81.23	81.81	82.40	82.98	83.57	84.15	84.73	85.32	85.90	86.49	87.07	87.66
1 1/2	86.70	87.34	87.98	88.61	89.25	89.89	90.53	91.16	91.80	92.44	93.08	93.71	94.35	94.99	95.63
1 5/8	93.93	94.62	95.31	96.00	96.69	97.38	98.07	98.76	99.45	100.14	100.83	101.52	102.21	102.90	103.59
1 3/4	101.15	101.89	102.64	103.38	104.13	104.87	105.61	106.36	107.10	107.84	108.59	109.33	110.08	110.82	111.56
1 7/8	108.38	109.17	109.97	110.77	111.56	112.36	113.16	113.95	114.75	115.55	116.34	117.14	117.94	118.73	119.53
2	115.60	116.45	117.30	118.15	119.00	119.85	120.70	121.55	122.40	123.25	124.10	124.95	125.80	126.65	127.50
1 1/16	130.05	131.01	131.96	132.92	133.88	134.83	135.79	136.74	137.70	138.66	139.61	140.57	141.53	142.48	143.44
1 1/8	144.50	145.56	146.63	147.69	148.75	149.81	150.88	151.93	153.00	154.06	155.13	156.19	157.25	158.31	159.38
1 1/4	158.95	160.12	161.29	162.46	163.63	164.79	165.96	167.13	168.30	169.47	170.64	171.81	172.98	174.14	175.31
1 3/4	173.40	174.68	175.95	177.23	178.50	179.78	181.05	182.33	183.60	184.88	186.15	187.43	188.70	189.98	191.25
1 7/8	187.85	189.23	190.61	191.99	193.38	194.76	196.14	197.52	198.90	200.28	201.66	203.04	204.43	205.81	207.19
2	202.30	203.79	205.28	206.76	208.25	209.74	211.23	212.71	214.20	215.69	217.18	218.66	220.15	221.64	223.13
2 1/8	216.75	218.34	219.94	221.53	223.13	224.72	226.31	227.91	229.50	231.09	232.69	234.28	235.88	237.47	239.06
2 1/4	231.20	232.90	234.60	236.30	238.00	239.70	241.40	243.10	244.80	246.50	248.20	249.90	251.60	253.30	255.00
2 3/8	245.65	247.46	249.26	251.07	252.88	254.68	256.49	258.29	260.10	261.91	263.71	265.52	267.33	269.13	270.94
2 1/2	260.10	262.01	263.93	265.84	267.75	269.66	271.58	273.49	275.40	277.31	279.23	281.14	283.05	284.96	286.88



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	37 3/4	38	38 1/4	38 1/2	38 3/4	39	39 1/4	39 1/2	39 3/4	40	40 1/4	40 1/2	40 3/4	41	41 1/4
1/8	16.04	16.15	16.26	16.36	16.47	16.58	16.68	16.79	16.89	17.00	17.11	17.21	17.32	17.43	17.53
5/32	20.05	20.19	20.32	20.45	20.59	20.72	20.85	20.98	21.12	21.25	21.38	21.52	21.65	21.78	21.91
3/16	24.07	24.23	24.38	24.54	24.70	24.86	25.02	25.18	25.34	25.50	25.66	25.82	25.98	26.14	26.30
7/32	28.08	28.26	28.43	28.63	28.82	29.01	29.19	29.38	29.56	29.75	29.94	30.12	30.31	30.49	30.68
1/4	32.09	32.30	32.51	32.73	32.94	33.15	33.36	33.58	33.79	34.00	34.21	34.43	34.64	34.85	35.06
5/16	40.11	40.38	40.64	40.91	41.17	41.44	41.70	41.97	42.23	42.50	42.77	43.03	43.30	43.56	43.83
3/8	48.13	48.45	48.77	49.09	49.41	49.73	50.04	50.36	50.68	51.00	51.32	51.64	51.96	52.28	52.59
7/16	56.15	56.53	56.90	57.27	57.64	58.01	58.38	58.76	59.13	59.50	59.87	60.24	60.62	60.99	61.36
1/2	64.18	64.60	65.00	65.45	65.88	66.30	66.73	67.15	67.58	68.00	68.43	68.85	69.28	69.70	70.13
5/8	72.20	72.68	73.15	73.63	74.11	74.59	75.07	75.54	76.02	76.50	76.98	77.46	77.93	78.41	78.89
3/4	80.22	80.75	81.28	81.81	82.34	82.88	83.41	83.94	84.47	85.00	85.53	86.06	86.59	87.13	87.66
7/8	88.24	88.83	89.41	89.99	90.58	91.16	91.75	92.33	92.92	93.50	94.08	94.67	95.25	95.84	96.42
1	96.26	96.90	97.54	98.18	98.81	99.45	100.09	100.73	101.36	102.00	102.64	103.28	103.91	104.55	105.19
1 1/8	104.28	104.98	105.67	106.36	107.05	107.74	108.43	109.12	109.81	110.50	111.19	111.88	112.57	113.26	113.95
1 1/4	112.31	113.03	113.79	114.54	115.28	116.03	116.77	117.51	118.26	119.00	119.74	120.49	121.23	121.98	122.72
1 1/2	120.33	121.13	121.92	122.72	123.52	124.31	125.11	125.91	126.70	127.50	128.30	129.09	129.89	130.69	131.48
1 3/4	128.35	129.20	130.05	130.90	131.75	132.60	133.45	134.30	135.15	136.00	136.85	137.70	138.55	139.40	140.25
1 7/8	144.39	145.35	146.31	147.26	148.22	149.18	150.13	151.09	152.04	153.00	153.96	154.91	155.87	156.83	157.78
2	160.44	161.50	162.56	163.63	164.69	165.75	166.81	167.88	168.94	170.00	171.06	172.13	173.19	174.25	175.31
2 1/8	176.48	177.65	178.82	179.99	181.16	182.33	183.49	184.66	185.83	187.00	188.17	189.34	190.51	191.68	192.84
2 1/4	192.53	193.80	195.08	196.35	197.63	198.90	200.18	201.45	202.73	204.00	205.28	206.55	207.83	209.10	210.38
2 1/2	208.57	209.95	211.33	212.71	214.09	215.48	216.86	218.24	219.62	221.00	222.38	223.76	225.14	226.53	227.91
2 3/8	224.61	226.10	227.59	229.08	230.56	232.05	233.54	235.03	236.51	238.00	239.49	240.98	242.46	243.95	245.44
2 1/2	240.66	242.25	243.84	245.44	247.03	248.63	250.22	251.81	253.41	255.00	256.59	258.19	259.78	261.38	262.97
2 7/8	256.70	258.40	260.10	261.80	263.50	265.20	266.90	268.60	270.30	272.00	273.70	275.40	277.10	278.80	280.50
3	272.74	274.55	276.36	278.16	279.97	281.78	283.58	285.39	287.19	289.00	290.81	292.62	294.42	296.23	298.03
3 1/8	288.79	290.70	292.61	294.53	296.44	298.35	300.26	302.18	304.09	306.00	307.91	309.83	311.74	313.65	315.56

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	41 1/2	41 3/4	42	42 1/4	42 1/2	42 3/4	43	43 1/4	43 1/2	43 3/4	44	44 1/4	44 1/2	44 3/4	45	
1/8	17.64	17.74	17.85	17.96	18.06	18.17	18.28	18.38	18.49	18.59	18.70	18.81	18.91	19.02	19.13	
5/32	22.05	22.18	22.31	22.45	22.58	22.71	22.84	22.98	23.11	23.24	23.38	23.51	23.64	23.77	23.91	
3/16	26.46	26.62	26.78	26.93	27.09	27.25	27.41	27.57	27.73	27.89	28.05	28.21	28.37	28.53	28.69	
7/16	30.87	31.05	31.24	31.42	31.61	31.80	31.98	32.17	32.35	32.54	32.73	32.91	33.10	33.28	33.47	
1/4	35.28	35.49	35.70	35.91	36.13	36.34	36.55	36.76	36.98	37.19	37.40	37.61	37.83	38.04	38.25	
5/16	44.09	44.36	44.63	44.89	45.16	45.42	45.69	45.95	46.22	46.48	46.75	47.02	47.28	47.55	47.81	
3/8	52.91	53.23	53.55	53.87	54.19	54.51	54.83	55.14	55.46	55.78	56.10	56.42	56.74	57.06	57.38	
7/8	61.73	62.10	62.48	62.85	63.22	63.59	63.96	64.33	64.71	65.08	65.45	65.82	66.19	66.57	66.94	
1/2	70.55	70.98	71.40	71.83	72.25	72.68	73.10	73.53	73.95	74.38	74.80	75.23	75.65	76.08	76.50	
9/16	79.37	79.85	80.33	80.80	81.28	81.76	82.24	82.72	83.19	83.67	84.15	84.63	85.11	85.58	86.06	
5/8	88.19	88.72	89.25	89.78	90.31	90.84	91.38	91.91	92.44	92.97	93.50	94.03	94.56	95.09	95.63	
11/16	97.01	97.59	98.18	98.76	99.34	99.93	100.51	101.10	101.68	102.27	102.85	103.43	104.02	104.60	105.19	
3/4	105.83	106.46	107.10	107.74	108.38	109.01	109.65	110.29	110.93	111.56	112.20	112.84	113.48	114.11	114.75	
13/16	114.64	115.33	116.03	116.72	117.41	118.10	118.79	119.48	120.17	120.86	121.55	122.24	122.93	123.62	124.31	
7/8	123.46	124.21	124.95	125.69	126.44	127.18	127.93	128.67	129.41	130.16	130.90	131.64	132.39	133.13	133.88	
15/16	132.28	133.08	133.88	134.67	135.47	136.27	137.06	137.86	138.66	139.45	140.25	141.05	141.84	142.64	143.44	
1	141.10	141.95	142.80	143.65	144.50	145.35	146.20	147.05	147.90	148.75	149.60	150.45	151.30	152.15	153.00	
1 1/16	158.74	159.69	160.65	161.61	162.56	163.52	164.48	165.43	166.39	167.34	168.30	169.26	170.21	171.17	172.13	
1 1/4	176.38	177.44	178.50	179.56	180.63	181.69	182.75	183.81	184.88	185.94	187.00	188.06	189.13	190.19	191.25	
1 3/8	194.01	195.18	196.35	197.52	198.69	199.86	201.03	202.19	203.36	204.53	205.70	206.87	208.04	209.21	210.38	
1 1/2	211.65	212.93	214.20	215.48	216.75	218.03	219.30	220.58	221.85	223.13	224.40	225.68	226.95	228.23	229.50	
1 5/8	229.29	230.67	232.05	233.43	234.81	236.19	237.58	238.96	240.34	241.72	243.10	244.48	245.86	247.24	248.63	
1 3/4	246.93	248.41	249.90	251.39	252.88	254.36	255.85	257.34	258.83	260.31	261.80	263.29	264.78	266.26	267.75	
1 7/8	264.56	266.16	267.75	269.34	270.94	272.53	274.13	275.72	277.31	278.91	280.50	282.09	283.69	285.28	286.88	
2	282.20	283.90	285.60	287.30	289.00	290.70	292.40	294.10	295.80	297.50	299.20	300.90	302.60	304.30	306.00	
2 1/8	299.84	301.64	303.45	305.26	307.06	308.87	310.68	312.48	314.29	316.09	317.90	319.71	321.51	323.32	325.13	
2 1/4	317.48	319.39	321.30	323.21	325.13	327.04	328.95	330.86	332.78	334.69	336.60	338.51	340.43	342.34	344.25	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES													
	45 1/4	45 1/2	45 3/4	46	46 1/4	46 1/2	46 3/4	47	47 1/4	47 1/2	47 3/4	48	48 1/4	48 1/2
1/8	19.23	19.34	19.44	19.55	19.66	19.76	19.87	19.98	20.08	20.19	20.29	20.40	20.51	20.61
5/16	24.04	24.17	24.30	24.44	24.57	24.70	24.84	24.97	25.10	25.23	25.37	25.50	25.63	25.77
3/8	28.85	29.01	29.17	29.33	29.48	29.64	29.80	29.96	30.12	30.28	30.44	30.60	30.76	30.92
1/2	33.65	33.84	34.03	34.21	34.40	34.58	34.77	34.96	35.14	35.33	35.51	35.70	35.89	36.07
5/8	38.46	38.68	38.89	39.10	39.31	39.53	39.74	39.95	40.16	40.38	40.59	40.80	41.01	41.23
3/4	43.27	43.51	43.75	44.00	44.24	44.48	44.72	44.96	45.20	45.44	45.68	45.92	46.16	46.40
7/8	48.08	48.34	48.61	48.88	49.14	49.41	49.67	49.94	50.20	50.47	50.73	51.00	51.27	51.53
1	52.89	53.17	53.45	53.73	54.01	54.29	54.57	54.85	55.13	55.41	55.69	55.97	56.25	56.53
1 1/8	57.70	58.00	58.30	58.60	58.90	59.20	59.50	59.80	60.10	60.40	60.70	61.00	61.30	61.60
1 1/4	62.51	62.83	63.15	63.47	63.79	64.11	64.43	64.75	65.07	65.39	65.71	66.03	66.35	66.67
1 1/2	67.31	67.68	68.05	68.43	68.80	69.17	69.54	69.91	70.28	70.66	71.03	71.40	71.77	72.14
1 3/4	72.12	72.53	72.94	73.35	73.76	74.17	74.58	74.99	75.40	75.81	76.22	76.63	77.04	77.45
2	76.93	77.35	77.78	78.20	78.63	79.05	79.48	79.90	80.33	80.75	81.18	81.60	82.03	82.45
2 1/8	81.74	82.20	82.66	83.12	83.58	84.04	84.50	84.96	85.42	85.88	86.34	86.80	87.26	87.72
2 1/4	86.54	87.02	87.50	87.98	88.45	88.93	89.41	89.89	90.37	90.84	91.32	91.80	92.28	92.76
2 1/2	91.35	91.86	92.37	92.88	93.39	93.90	94.41	94.92	95.43	95.94	96.45	96.96	97.47	97.98
2 3/4	96.16	96.69	97.22	97.75	98.28	98.81	99.34	99.88	100.41	100.94	101.47	102.00	102.53	103.06
3	101.00	101.55	102.10	102.65	103.20	103.75	104.30	104.85	105.40	105.95	106.50	107.05	107.60	108.15
3 1/8	105.77	106.36	106.94	107.53	108.11	108.69	109.28	109.86	110.45	111.03	111.62	112.20	112.78	113.37
3 1/4	110.59	111.20	111.81	112.42	113.03	113.64	114.25	114.86	115.47	116.08	116.69	117.29	117.90	118.51
3 1/2	115.39	116.03	116.66	117.30	117.94	118.58	119.21	119.85	120.49	121.13	121.76	122.40	123.04	123.68
3 3/4	120.19	120.86	121.53	122.20	122.87	123.54	124.21	124.88	125.55	126.22	126.89	127.56	128.23	128.90
4	125.00	125.69	126.38	127.08	127.77	128.46	129.15	129.84	130.53	131.22	131.91	132.60	133.29	133.98
4 1/8	130.00	130.71	131.42	132.13	132.84	133.55	134.26	134.97	135.68	136.39	137.10	137.81	138.52	139.23
4 1/4	135.00	135.73	136.46	137.19	137.92	138.65	139.38	140.11	140.84	141.57	142.30	143.03	143.76	144.49
4 1/2	140.00	140.75	141.50	142.25	143.00	143.75	144.50	145.25	146.00	146.75	147.50	148.25	149.00	149.75
4 3/4	145.00	145.77	146.54	147.31	148.08	148.85	149.62	150.39	151.16	151.93	152.70	153.47	154.24	155.01
5	150.00	150.79	151.58	152.37	153.16	153.95	154.74	155.53	156.32	157.11	157.90	158.69	159.48	160.27
5 1/8	155.00	155.81	156.62	157.43	158.24	159.05	159.86	160.67	161.48	162.29	163.10	163.91	164.72	165.53
5 1/4	160.00	160.83	161.66	162.49	163.32	164.15	164.98	165.81	166.64	167.47	168.30	169.13	169.96	170.79
5 1/2	165.00	165.85	166.70	167.55	168.40	169.25	170.10	170.95	171.80	172.65	173.50	174.35	175.20	176.05
5 3/4	170.00	170.87	171.74	172.61	173.48	174.35	175.22	176.09	176.96	177.83	178.70	179.57	180.44	181.31
6	175.00	175.89	176.78	177.67	178.56	179.45	180.34	181.23	182.12	183.01	183.90	184.79	185.68	186.57
6 1/8	180.00	180.91	181.82	182.73	183.64	184.55	185.46	186.37	187.28	188.19	189.10	190.01	190.92	191.83
6 1/4	185.00	185.93	186.86	187.79	188.72	189.65	190.58	191.51	192.44	193.37	194.30	195.23	196.16	197.09
6 1/2	190.00	190.95	191.90	192.85	193.80	194.75	195.70	196.65	197.60	198.55	199.50	200.45	201.40	202.35
6 3/4	195.00	195.97	196.94	197.91	198.88	199.85	200.82	201.79	202.76	203.73	204.70	205.67	206.64	207.61
7	200.00	200.99	201.98	202.97	203.96	204.95	205.94	206.93	207.92	208.91	209.90	210.89	211.88	212.87
7 1/8	205.00	206.01	207.02	208.03	209.04	210.05	211.06	212.07	213.08	214.09	215.10	216.11	217.12	218.13
7 1/4	210.00	211.03	212.06	213.09	214.12	215.15	216.18	217.21	218.24	219.27	220.30	221.33	222.36	223.39
7 1/2	215.00	216.05	217.10	218.15	219.20	220.25	221.30	222.35	223.40	224.45	225.50	226.55	227.60	228.65
7 3/4	220.00	221.07	222.14	223.21	224.28	225.35	226.42	227.49	228.56	229.63	230.70	231.77	232.84	233.91
8	225.00	226.09	227.18	228.27	229.36	230.45	231.54	232.63	233.72	234.81	235.90	236.99	238.08	239.17
8 1/8	230.00	231.11	232.22	233.33	234.44	235.55	236.66	237.77	238.88	239.99	241.10	242.21	243.32	244.43
8 1/4	235.00	236.13	237.26	238.39	239.52	240.65	241.78	242.91	244.04	245.17	246.30	247.43	248.56	249.69
8 1/2	240.00	241.15	242.30	243.45	244.60	245.75	246.90	248.05	249.20	250.35	251.50	252.65	253.80	254.95
8 3/4	245.00	246.17	247.34	248.51	249.68	250.85	252.02	253.19	254.36	255.53	256.70	257.87	259.04	260.21
9	250.00	251.19	252.38	253.57	254.76	255.95	257.14	258.33	259.52	260.71	261.90	263.09	264.28	265.47
9 1/8	255.00	256.21	257.42	258.63	259.84	261.05	262.26	263.47	264.68	265.89	267.10	268.31	269.52	270.73
9 1/4	260.00	261.23	262.46	263.69	264.92	266.15	267.38	268.61	269.84	271.07	272.30	273.53	274.76	275.99
9 1/2	265.00	266.25	267.50	268.75	269.99	271.24	272.49	273.74	274.99	276.24	277.49	278.74	279.99	281.24
9 3/4	270.00	271.27	272.54	273.81	275.08	276.35	277.62	278.89	280.16	281.43	282.70	283.97	285.24	286.51
10	275.00	276.29	277.58	278.87	280.16	281.45	282.74	284.03	285.32	286.61	287.90	289.19	290.48	291.77
10 1/8	280.00	281.31	282.62	283.93	285.24	286.55	287.86	289.17	290.48	291.79	293.10	294.41	295.72	297.03
10 1/4	285.00	286.33	287.66	288.99	290.32	291.65	292.98	294.31	295.64	296.97	298.30	299.63	300.96	302.29
10 1/2	290.00	291.35	292.70	294.05	295.40	296.75	298.10	299.45	300.80	302.15	303.50	304.85	306.20	307.55
10 3/4	295.00	296.37	297.74	299.11	300.48	301.85	303.22	304.59	305.96	307.33	308.70	310.07	311.44	312.81
11	300.00	301.39	302.78	304.17	305.56	306.95	308.34	309.73	311.12	312.51	313.90	315.29	316.68	318.07
11 1/8	305.00	306.41	307.82	309.23	310.64	312.05	313.46	314.87	316.28	317.69	319.10	320.51	321.92	323.33
11 1/4	310.00	311.43	312.86	314.29	315.72	317.15	318.58	319.99	321.42	322.85	324.28	325.71	327.14	328.57
11 1/2	315.00	316.45	317.90	319.35	320.80	322.25	323.70	325.15	326.60	328.05	329.50	330.95	332.40	333.85
11 3/4	320.00	321.47	322.94	324.41	325.88	327.35	328.82	330.29	331.76	333.23	334.70	336.17	337.64	339.11
12	325.00	326.49	327.98	329.47	330.96	332.45	333.94	335.43	336.92	338.41	339.90	341.39	342.88	344.37
12 1/8	330.00	331.51	333.02	334.53	336.04	337.55	339.06	340.57	342.08	343.59	345.10	346.61	348.12	349.63
12 1/4	335.00	336.53	338.06	339.59	341.12	342.65	344.18	345.71	347.24	348.77	350.30	351.83	353.36	354.89
12 1/2	340.00	341.55	343.10	344.65	346.20	347.75	349.30	350.85	352.40	353.95	355.50	357.05	358.60	360.15
12 3/4	345.00	346.57	348.14	349.71	351.28	352.85	354.42	355.99	357.56	359.13	360.70	362.27	363.84	365.41
13	350.00	351.59	353.18	354.77	356.36	357.95	359.54	361.13	362.72	364.31	365.90	367.49	369.08	370.67
13 1/8	355.00	356.61	358.22	359.83	361.44	363.05	364.66	366.27	367.88	369.49	371.10	372.71	374.32	375.93
13 1/4	360.00	361.63	363.26	364.89	366.52	368.15	369.78	371.41	373.04	374.67	376.30	377.93	379.56	381.19
13 1/2	365.00	366.65	368.30	369.95	371.60	373.25	374.90	376.55	378.20	379.85	381.50	383.15	384.80	386.45
13 3/4	370.00	371.67	373.34	375.01	376.68	378.35	380.02	381.69	383.36	385.03	386.70	388.37	390.0	



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	49	49 1/4	49 1/2	49 3/4	50	50 1/4	50 1/2	50 3/4	51	51 1/4	51 1/2	51 3/4	52	52 1/4	52 1/2
1/8	20.83	20.93	21.04	21.14	21.25	21.36	21.46	21.57	21.68	21.78	21.89	21.99	22.10	22.21	22.31
5/32	26.03	26.16	26.30	26.43	26.56	26.70	26.83	26.96	27.09	27.23	27.36	27.49	27.63	27.76	27.89
3/16	31.24	31.40	31.56	31.72	31.88	32.03	32.19	32.35	32.51	32.67	32.83	32.99	33.15	33.31	33.47
1/4	36.44	36.63	36.82	37.00	37.19	37.37	37.56	37.75	37.93	38.10	38.28	38.46	38.64	38.82	39.00
5/16	41.65	41.86	42.08	42.29	42.50	42.71	42.93	43.14	43.35	43.56	43.78	43.99	44.20	44.41	44.63
3/8	52.06	52.33	52.59	52.86	53.13	53.39	53.66	53.92	54.19	54.45	54.72	54.98	55.25	55.52	55.78
7/16	62.48	62.79	63.11	63.43	63.75	64.07	64.39	64.71	65.03	65.34	65.66	65.98	66.30	66.62	66.94
1/2	72.89	73.26	73.63	74.00	74.38	74.75	75.12	75.49	75.86	76.23	76.61	76.98	77.35	77.72	78.09
5/8	83.30	83.73	84.15	84.58	85.00	85.43	85.85	86.28	86.70	87.13	87.55	87.98	88.40	88.83	89.25
3/4	93.71	94.19	94.67	95.15	95.63	96.10	96.58	97.06	97.54	98.02	98.49	98.97	99.45	99.93	100.41
7/8	104.13	104.66	105.19	105.72	106.25	106.78	107.31	107.84	108.38	108.91	109.44	109.97	110.50	111.03	111.56
1 1/8	114.54	115.12	115.71	116.29	116.88	117.46	118.04	118.63	119.21	119.80	120.38	120.97	121.55	122.13	122.72
1 1/4	124.95	125.59	126.23	126.86	127.50	128.14	128.78	129.41	130.05	130.69	131.33	131.96	132.60	133.24	133.88
1 1/2	135.36	136.05	136.74	137.43	138.13	138.82	139.51	140.20	140.89	141.58	142.27	142.96	143.65	144.34	145.03
1 3/4	145.78	146.52	147.26	148.01	148.75	149.49	150.24	150.98	151.73	152.47	153.21	153.96	154.70	155.44	156.19
2	156.19	156.98	157.78	158.58	159.38	160.17	160.97	161.77	162.56	163.36	164.16	164.95	165.75	166.55	167.34
2 1/4	166.60	167.45	168.30	169.15	170.00	170.85	171.70	172.55	173.40	174.25	175.10	175.95	176.80	177.65	178.50
2 1/2	187.43	188.38	189.34	190.29	191.25	192.21	193.16	194.12	195.08	196.03	196.99	197.94	198.90	199.86	200.81
2 3/4	208.25	209.31	210.38	211.44	212.50	213.56	214.63	215.69	216.75	217.81	218.88	219.94	221.00	222.06	223.13
3	229.08	230.24	231.41	232.58	233.75	234.92	236.09	237.26	238.43	239.59	240.76	241.93	243.10	244.27	245.44
3 1/4	249.90	251.18	252.45	253.73	255.00	256.28	257.55	258.83	260.10	261.38	262.65	263.93	265.20	266.48	267.75
3 1/2	270.73	272.11	273.49	274.87	276.25	277.63	279.01	280.39	281.78	283.16	284.54	285.92	287.30	288.68	290.06
3 3/4	291.55	293.04	294.53	296.01	297.50	298.99	300.48	301.96	303.45	304.94	306.43	307.91	309.40	310.89	312.38
4	312.38	313.97	315.56	317.16	318.75	320.34	321.94	323.53	325.13	326.72	328.31	329.91	331.50	333.09	334.69
4 1/4	333.20	334.90	336.60	338.30	340.00	341.70	343.40	345.10	346.80	348.50	350.20	351.90	353.60	355.30	357.00
4 1/2	354.03	355.83	357.64	359.44	361.25	363.06	364.86	366.67	368.48	370.28	372.09	373.89	375.70	377.51	379.31
4 3/4	374.85	376.76	378.68	380.59	382.50	384.41	386.33	388.24	390.15	392.06	393.98	395.89	397.80	399.71	401.63



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	52 3/4	53	53 1/4	53 1/2	53 3/4	54	54 1/4	54 1/2	54 3/4	55	55 1/4	55 1/2	55 3/4	56	56 1/4
1 1/8	22.42	22.53	22.63	22.74	22.84	22.95	23.06	23.16	23.27	23.38	23.48	23.59	23.69	23.80	23.91
5/16	28.02	28.16	28.29	28.42	28.55	28.69	28.82	28.95	29.09	29.22	29.35	29.48	29.62	29.75	29.88
3/8	33.63	33.79	33.95	34.11	34.27	34.43	34.58	34.74	34.90	35.06	35.22	35.38	35.54	35.70	35.86
7/16	39.23	39.42	39.60	39.79	39.98	40.16	40.35	40.53	40.72	40.91	41.09	41.28	41.46	41.65	41.84
1/2	44.84	45.05	45.26	45.48	45.69	45.90	46.11	46.33	46.54	46.75	46.96	47.18	47.39	47.60	47.81
5/8	56.05	56.31	56.58	56.84	57.11	57.38	57.64	57.91	58.17	58.44	58.70	58.97	59.23	59.50	59.77
3/4	67.26	67.58	67.89	68.21	68.53	68.85	69.17	69.49	69.81	70.13	70.44	70.76	71.08	71.40	71.72
7/8	78.47	78.84	79.21	79.58	79.95	80.33	80.70	81.07	81.44	81.81	82.18	82.56	82.93	83.30	83.67
1 1/16	89.68	90.10	90.53	90.95	91.38	91.80	92.23	92.65	93.08	93.50	93.93	94.35	94.78	95.20	95.63
9/16	100.88	101.36	101.84	102.32	102.80	103.28	103.75	104.23	104.71	105.19	105.67	106.14	106.62	107.10	107.58
5/8	112.09	112.63	113.16	113.69	114.22	114.75	115.28	115.81	116.34	116.88	117.41	117.94	118.47	119.00	119.53
11/16	123.30	123.89	124.47	125.06	125.64	126.23	126.81	127.39	127.98	128.56	129.15	129.73	130.32	130.90	131.48
3/4	134.51	135.15	135.79	136.43	137.06	137.70	138.34	138.98	139.61	140.25	140.89	141.53	142.16	142.80	143.44
13/16	145.72	146.41	147.10	147.79	148.48	149.18	149.87	150.56	151.25	151.94	152.63	153.32	154.01	154.70	155.39
7/8	156.93	157.68	158.42	159.16	159.91	160.65	161.39	162.14	162.88	163.63	164.37	165.11	165.86	166.60	167.34
15/16	168.14	168.94	169.73	170.53	171.33	172.13	172.92	173.72	174.52	175.31	176.11	176.91	177.70	178.50	179.30
1	179.35	180.20	181.05	181.90	182.75	183.60	184.45	185.30	186.15	187.00	187.85	188.70	189.55	190.40	191.25
1 1/8	201.77	202.73	203.68	204.64	205.59	206.55	207.51	208.46	209.42	210.38	211.33	212.29	213.24	214.20	215.16
1 1/4	224.19	225.25	226.31	227.38	228.44	229.50	230.56	231.63	232.69	233.75	234.81	235.88	236.94	238.00	239.06
1 1/2	246.61	247.78	248.94	250.11	251.28	252.45	253.62	254.79	255.96	257.13	258.29	259.46	260.63	261.80	262.97
1 3/8	269.03	270.30	271.58	272.85	274.13	275.40	276.68	277.95	279.23	280.50	281.78	283.05	284.33	285.60	286.88
1 1/2	291.44	292.83	294.21	295.59	296.97	298.35	299.73	301.11	302.49	303.88	305.26	306.64	308.02	309.40	310.78
1 5/8	313.86	315.35	316.84	318.33	319.81	321.30	322.79	324.28	325.76	327.25	328.74	330.23	331.71	333.20	334.69
1 3/4	336.28	337.88	339.47	341.06	342.64	344.25	345.84	347.43	349.03	350.63	352.22	353.81	355.41	357.00	358.59
1 7/8	358.70	360.40	362.10	363.80	365.50	367.20	368.90	370.60	372.30	374.00	375.70	377.40	379.10	380.80	382.50
2	381.12	382.93	384.73	386.54	388.34	390.15	391.96	393.76	395.57	397.38	399.18	400.99	402.79	404.60	406.41
2 1/8	403.54	405.45	407.36	409.28	411.19	413.10	415.01	416.93	418.84	420.75	422.66	424.58	426.49	428.40	430.31

# Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	56 1/2	56 3/4	57	57 1/4	57 1/2	57 3/4	58	58 1/4	58 1/2	58 3/4	59	59 1/4	59 1/2	59 3/4	60	
1/8	24.01	24.12	24.23	24.33	24.44	24.54	24.65	24.76	24.86	24.97	25.08	25.18	25.29	25.39	25.50	
3/16	30.02	30.15	30.28	30.41	30.55	30.68	30.81	30.95	31.08	31.21	31.34	31.48	31.61	31.74	31.88	
7/16	36.02	36.18	36.34	36.50	36.66	36.82	36.98	37.13	37.29	37.45	37.61	37.77	37.93	38.09	38.25	
1 1/16	42.02	42.21	42.39	42.58	42.77	42.95	43.14	43.32	43.51	43.70	43.88	44.07	44.25	44.44	44.63	
1 1/4	48.03	48.24	48.45	48.66	48.88	49.09	49.30	49.51	49.73	49.94	50.15	50.36	50.58	50.79	51.00	
5/16	60.03	60.30	60.56	60.83	61.09	61.36	61.63	61.89	62.16	62.42	62.69	62.95	63.22	63.48	63.75	
3/8	72.04	72.36	72.68	72.99	73.31	73.63	73.95	74.27	74.59	74.91	75.23	75.54	75.86	76.18	76.50	
7/8	84.04	84.42	84.79	85.16	85.53	85.90	86.28	86.65	87.02	87.39	87.76	88.13	88.51	88.88	89.25	
1 1/2	96.05	96.48	96.90	97.33	97.75	98.18	98.60	99.03	99.45	99.88	100.30	100.73	101.15	101.58	102.00	
9/16	108.06	108.53	109.01	109.49	109.97	110.45	110.93	111.40	111.88	112.36	112.84	113.32	113.79	114.27	114.75	
5/8	120.06	120.59	121.13	121.66	122.19	122.72	123.25	123.78	124.31	124.84	125.38	125.91	126.44	126.97	127.50	
1 1/8	132.07	132.65	133.24	133.82	134.41	134.99	135.58	136.16	136.74	137.33	137.91	138.50	139.08	139.67	140.25	
3/4	144.08	144.71	145.35	145.99	146.63	147.26	147.90	148.54	149.18	149.81	150.45	151.09	151.73	152.36	153.00	
1 3/16	156.08	156.77	157.46	158.15	158.84	159.53	160.23	160.92	161.61	162.30	162.99	163.68	164.37	165.06	165.75	
7/8	168.09	168.83	169.58	170.32	171.06	171.81	172.55	173.29	174.04	174.78	175.53	176.27	177.01	177.76	178.50	
1 5/8	180.09	180.89	181.69	182.48	183.28	184.08	184.88	185.67	186.47	187.27	188.06	188.86	189.66	190.45	191.25	
1	192.10	192.95	193.80	194.65	195.50	196.35	197.20	198.05	198.90	199.75	200.60	201.45	202.30	203.15	204.00	
1 1/8	216.11	217.07	218.03	218.98	219.94	220.89	221.85	222.81	223.76	224.72	225.68	226.63	227.59	228.54	229.50	
1 1/4	240.13	241.19	242.25	243.31	244.38	245.44	246.50	247.56	248.63	249.69	250.75	251.81	252.88	253.94	255.00	
1 3/8	264.14	265.31	266.48	267.64	268.81	269.98	271.15	272.32	273.49	274.66	275.83	276.99	278.16	279.33	280.50	
1 1/2	288.15	289.43	290.70	291.98	293.25	294.53	295.80	297.08	298.35	299.63	300.90	302.18	303.45	304.73	306.00	
1 5/8	312.16	313.54	314.93	316.31	317.69	319.07	320.45	321.83	323.21	324.59	325.98	327.36	328.74	330.12	331.50	
1 3/4	336.18	337.66	339.15	340.64	342.13	343.61	345.09	346.58	348.06	349.55	351.03	352.52	354.00	355.51	357.00	
1 7/8	360.19	361.78	363.38	364.97	366.56	368.16	369.75	371.34	372.94	374.53	376.13	377.72	379.31	380.91	382.50	
2	384.20	385.90	387.60	389.30	391.00	392.70	394.40	396.10	397.80	399.50	401.20	402.90	404.60	406.30	408.00	
2 1/8	408.21	410.02	411.83	413.63	415.44	417.24	419.05	420.86	422.66	424.47	426.28	428.08	429.89	431.69	433.50	
2 1/4	432.23	434.14	436.05	437.96	439.88	441.79	443.70	445.61	447.53	449.44	451.35	453.26	455.18	457.09	459.00	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES													
	60 1/4	60 1/2	60 3/4	61	61 1/4	61 1/2	61 3/4	62	62 1/4	62 1/2	62 3/4	63	63 1/4	63 1/2
1/8	25.61	25.71	25.82	25.93	26.03	26.14	26.24	26.35	26.46	26.56	26.67	26.78	26.88	26.99
5/16	32.01	32.14	32.27	32.41	32.54	32.67	32.80	32.94	33.07	33.20	33.34	33.47	33.60	33.73
3/8	38.41	38.57	38.73	38.89	39.05	39.21	39.37	39.53	39.68	39.84	40.00	40.16	40.32	40.48
7/16	44.81	45.00	45.18	45.37	45.55	45.74	45.93	46.11	46.30	46.48	46.67	46.86	47.04	47.23
1/2	51.21	51.43	51.64	51.85	52.06	52.28	52.49	52.70	52.91	53.13	53.34	53.55	53.76	53.98
5/8	64.02	64.28	64.55	64.81	65.08	65.34	65.61	65.88	66.14	66.41	66.67	66.94	67.20	67.47
3/4	76.82	77.14	77.46	77.78	78.09	78.41	78.73	79.05	79.37	79.69	80.01	80.33	80.64	80.96
7/8	89.62	89.99	90.37	90.74	91.11	91.48	91.85	92.23	92.60	92.97	93.34	93.71	94.08	94.46
1 1/8	102.43	102.85	103.28	103.70	104.13	104.55	104.98	105.40	105.83	106.25	106.68	107.10	107.53	107.95
1 1/4	115.23	115.71	116.18	116.66	117.14	117.62	118.10	118.58	119.05	119.53	120.01	120.49	120.97	121.44
1 1/2	128.03	128.56	129.09	129.63	130.16	130.69	131.22	131.75	132.28	132.81	133.34	133.88	134.41	134.94
1 3/4	140.83	141.42	142.00	142.59	143.17	143.76	144.34	144.93	145.51	146.09	146.68	147.26	147.85	148.43
2	153.64	154.28	154.91	155.55	156.19	156.83	157.46	158.10	158.74	159.38	160.01	160.65	161.29	161.93
2 1/8	166.44	167.13	167.82	168.51	169.20	169.89	170.58	171.28	171.97	172.66	173.35	174.04	174.73	175.42
2 1/4	179.24	179.99	180.73	181.48	182.22	182.96	183.71	184.45	185.19	185.94	186.68	187.43	188.17	188.91
2 1/2	192.05	192.84	193.64	194.44	195.23	196.03	196.83	197.63	198.42	199.22	200.02	200.81	201.61	202.41
2 3/4	204.85	205.70	206.55	207.40	208.25	209.10	209.95	210.80	211.65	212.50	213.35	214.20	215.05	215.90
3	230.46	231.41	232.37	233.33	234.28	235.24	236.19	237.15	238.11	239.06	240.02	240.98	241.93	242.88
3 1/8	256.06	257.13	258.19	259.25	260.31	261.38	262.44	263.50	264.56	265.63	266.69	267.75	268.81	269.87
3 1/4	281.67	282.84	284.01	285.18	286.34	287.51	288.68	289.85	291.02	292.19	293.36	294.53	295.69	296.86
3 1/2	307.28	308.55	309.83	311.10	312.38	313.65	314.93	316.20	317.48	318.75	320.03	321.30	322.58	323.85
3 3/4	332.88	334.26	335.64	337.03	338.41	339.79	341.17	342.55	343.93	345.31	346.69	348.08	349.46	350.84
4	358.49	359.98	361.46	362.95	364.44	365.93	367.41	368.90	370.39	371.88	373.36	374.85	376.34	377.83
4 1/8	384.09	385.69	387.28	388.88	390.47	392.06	393.66	395.25	396.84	398.44	400.03	401.63	403.22	404.81
4 1/4	409.70	411.40	413.10	414.80	416.50	418.20	419.90	421.60	423.30	425.00	426.70	428.40	430.10	431.80
4 1/2	435.31	437.11	438.92	440.73	442.53	444.34	446.14	447.95	449.76	451.56	453.37	455.18	456.98	458.79
4 3/4	460.91	462.83	464.74	466.65	468.56	470.48	472.39	474.30	476.21	478.13	480.04	481.95	483.86	485.78



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES												
	64	64 1/4	64 1/2	64 3/4	65	65 1/4	65 1/2	65 3/4	66	66 1/4	66 1/2	66 3/4	67
1/8	27.20	27.31	27.41	27.52	27.63	27.73	27.84	27.94	28.05	28.16	28.26	28.37	28.48
1/4	34.00	34.13	34.27	34.40	34.53	34.66	34.80	34.93	35.06	35.20	35.33	35.46	35.59
3/8	40.80	40.96	41.12	41.28	41.44	41.60	41.76	41.92	42.08	42.23	42.39	42.55	42.71
1/2	47.60	47.79	47.97	48.16	48.34	48.53	48.72	48.90	49.09	49.27	49.45	49.63	49.83
5/8	54.40	54.61	54.83	55.04	55.25	55.46	55.68	55.89	56.10	56.31	56.53	56.74	56.95
1	68.00	68.27	68.53	68.80	69.06	69.33	69.59	69.86	70.13	70.39	70.66	70.92	71.19
1 1/8	81.60	81.92	82.24	82.56	82.88	83.19	83.51	83.83	84.15	84.47	84.79	85.11	85.43
1 1/4	95.20	95.57	95.94	96.32	96.69	97.06	97.43	97.80	98.18	98.55	98.92	99.29	99.66
1 1/2	108.80	109.23	109.65	110.08	110.50	110.93	111.35	111.78	112.20	112.63	113.05	113.48	113.90
1 3/4	122.40	122.88	123.36	123.83	124.31	124.79	125.27	125.75	126.23	126.70	127.18	127.66	128.14
2	136.00	136.53	137.06	137.59	138.13	138.66	139.19	139.72	140.25	140.78	141.31	141.84	142.38
2 1/8	149.60	150.18	150.77	151.35	151.94	152.52	153.11	153.69	154.28	154.86	155.44	156.03	156.61
2 1/4	163.20	163.84	164.48	165.11	165.75	166.39	167.03	167.66	168.30	168.94	169.58	170.21	170.85
2 1/2	176.80	177.49	178.18	178.87	179.56	180.25	180.94	181.63	182.33	183.02	183.71	184.40	185.09
2 3/8	190.40	191.14	191.89	192.63	193.38	194.12	194.86	195.61	196.35	197.09	197.84	198.58	199.33
2 1/2	204.00	204.80	205.59	206.39	207.19	207.98	208.78	209.58	210.38	211.17	211.97	212.77	213.56
3	217.60	218.45	219.30	220.15	221.00	221.85	222.70	223.55	224.40	225.25	226.10	226.95	227.80
3 1/8	244.80	245.76	246.71	247.67	248.63	249.58	250.54	251.49	252.45	253.41	254.36	255.32	256.28
3 1/4	272.00	273.06	274.13	275.19	276.25	277.31	278.38	279.44	280.50	281.56	282.62	283.69	284.75
3 1/2	299.20	300.37	301.54	302.71	303.88	305.04	306.21	307.38	308.55	309.72	310.89	312.06	313.23
3 3/4	326.40	327.68	328.95	330.23	331.50	332.78	334.05	335.33	336.60	337.88	339.15	340.43	341.70
4	353.60	354.98	356.36	357.74	359.13	360.51	361.89	363.27	364.65	366.03	367.41	368.79	370.18
4 1/8	380.80	382.29	383.78	385.26	386.75	388.24	389.73	391.21	392.70	394.19	395.68	397.16	398.65
4 1/4	408.00	409.59	411.19	412.78	414.38	415.97	417.56	419.16	420.75	422.34	423.94	425.53	427.13
4 1/2	435.20	436.90	438.60	440.30	442.00	443.70	445.40	447.10	448.80	450.50	452.20	453.90	455.60
4 3/4	462.40	464.21	466.01	467.82	469.63	471.43	473.24	475.04	476.85	478.66	480.46	482.27	484.08
5	489.60	491.51	493.43	495.34	497.25	499.16	501.08	502.99	504.90	506.81	508.73	510.64	512.55



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES													
	67 3/4	68	68 1/4	68 1/2	68 3/4	69	69 1/4	69 1/2	69 3/4	70	70 1/4	70 1/2	70 3/4	71 1/4
1/8	28.79	28.90	29.01	29.11	29.22	29.33	29.43	29.54	29.64	29.75	29.86	29.96	30.07	30.18
5/16	35.99	36.13	36.26	36.39	36.52	36.66	36.79	36.92	37.05	37.19	37.32	37.45	37.59	37.72
3/8	43.19	43.35	43.51	43.67	43.83	43.99	44.15	44.31	44.47	44.63	44.78	44.94	45.10	45.26
7/16	50.39	50.58	50.76	50.95	51.13	51.32	51.50	51.69	51.88	52.06	52.25	52.43	52.62	52.81
1/2	57.59	57.80	58.01	58.23	58.44	58.65	58.86	59.08	59.29	59.50	59.71	59.93	60.14	60.35
5/8	71.98	72.25	72.52	72.78	73.05	73.31	73.58	73.84	74.11	74.38	74.64	74.91	75.17	75.44
3/4	86.38	86.70	87.02	87.34	87.66	87.98	88.29	88.61	88.93	89.25	89.57	89.89	90.21	90.53
7/8	100.78	101.15	101.52	101.89	102.27	102.64	103.01	103.38	103.75	104.13	104.50	104.87	105.24	105.61
1 1/8	115.18	115.60	116.03	116.45	116.88	117.30	117.73	118.15	118.58	119.00	119.43	119.85	120.28	120.70
1 1/4	129.57	130.05	130.53	131.01	131.48	131.96	132.44	132.92	133.40	133.88	134.35	134.83	135.31	135.79
1 1/2	143.97	144.50	145.03	145.56	146.09	146.63	147.16	147.69	148.22	148.75	149.28	149.81	150.34	150.87
1 3/4	158.37	158.95	159.53	160.12	160.70	161.29	161.87	162.46	163.04	163.63	164.21	164.79	165.38	165.96
1 7/8	172.76	173.40	174.04	174.68	175.31	175.95	176.59	177.23	177.86	178.50	179.14	179.78	180.41	181.05
2	187.16	187.85	188.54	189.23	189.92	190.61	191.30	191.99	192.68	193.38	194.07	194.76	195.45	196.14
2 1/8	201.56	202.30	203.04	203.79	204.53	205.28	206.02	206.76	207.51	208.25	208.99	209.74	210.48	211.23
2 1/4	215.95	216.75	217.55	218.34	219.14	219.94	220.73	221.53	222.33	223.13	223.92	224.72	225.52	226.31
2 1/2	230.35	231.20	232.05	232.90	233.75	234.60	235.45	236.30	237.15	238.00	238.85	239.70	240.55	241.40
2 3/4	259.14	260.10	261.06	262.01	262.97	263.93	264.88	265.84	266.79	267.75	268.71	269.66	270.62	271.58
2 7/8	287.94	289.00	290.06	291.13	292.19	293.25	294.31	295.38	296.44	297.50	298.56	299.63	300.69	301.75
3	316.73	317.90	319.07	320.24	321.41	322.58	323.74	324.91	326.08	327.25	328.42	329.59	330.76	331.93
3 1/8	345.53	346.80	348.08	349.35	350.63	351.90	353.18	354.45	355.73	357.00	358.28	359.55	360.83	362.10
3 1/4	374.32	375.70	377.08	378.46	379.84	381.22	382.61	383.99	385.37	386.75	388.13	389.51	390.89	392.28
3 1/2	403.11	404.60	406.09	407.58	409.06	410.55	412.04	413.53	415.01	416.50	417.99	419.48	420.96	422.45
3 3/4	431.91	433.50	435.09	436.69	438.28	439.88	441.47	443.06	444.66	446.25	447.84	449.43	451.03	452.63
3 7/8	460.70	462.40	464.10	465.80	467.50	469.20	470.90	472.60	474.30	476.00	477.70	479.40	481.10	482.80
4	489.49	491.30	493.11	494.91	496.72	498.53	500.33	502.14	503.94	505.75	507.56	509.36	511.17	512.98
4 1/8	518.29	520.20	522.11	524.03	525.94	527.85	529.76	531.68	533.59	535.50	537.41	539.33	541.24	543.15

# Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES														
	71 1/2	71 3/4	72	72 1/4	72 1/2	72 3/4	73	73 1/4	73 1/2	73 3/4	74	74 1/4	74 1/2	74 3/4	75
1/8	30.39	30.49	30.60	30.71	30.81	30.92	31.03	31.13	31.24	31.34	31.45	31.56	31.66	31.77	31.88
5/16	37.98	38.12	38.25	38.38	38.52	38.65	38.78	38.91	39.05	39.18	39.31	39.45	39.58	39.71	39.84
3/16	45.58	45.74	45.90	46.06	46.22	46.38	46.54	46.70	46.86	47.02	47.18	47.33	47.49	47.65	47.81
1/4	53.18	53.36	53.55	53.74	53.92	54.11	54.29	54.48	54.67	54.85	55.04	55.22	55.41	55.60	55.78
5/16	60.78	60.99	61.20	61.41	61.63	61.84	62.05	62.26	62.48	62.69	62.90	63.11	63.33	63.54	63.75
3/8	75.97	76.23	76.50	76.77	77.03	77.30	77.56	77.83	78.09	78.36	78.63	78.89	79.16	79.42	79.69
7/16	91.16	91.48	91.80	92.12	92.44	92.76	93.08	93.39	93.71	94.03	94.35	94.67	94.99	95.31	95.63
1/2	106.36	106.73	107.10	107.47	107.84	108.22	108.59	108.96	109.33	109.70	110.08	110.45	110.82	111.19	111.56
5/8	121.55	121.98	122.40	122.83	123.25	123.68	124.10	124.53	124.95	125.38	125.80	126.23	126.65	127.08	127.50
3/4	136.74	137.22	137.70	138.18	138.66	139.13	139.61	140.09	140.57	141.05	141.53	142.00	142.48	142.96	143.44
7/8	151.94	152.47	153.00	153.53	154.06	154.59	155.13	155.66	156.19	156.72	157.25	157.78	158.31	158.84	159.38
1 1/8	167.13	167.72	168.30	168.88	169.47	170.05	170.64	171.22	171.81	172.39	172.98	173.56	174.14	174.73	175.31
1 1/4	182.33	182.96	183.60	184.24	184.88	185.51	186.15	186.79	187.43	188.06	188.70	189.34	189.98	190.61	191.25
1 1/2	197.52	198.21	198.90	199.59	200.28	200.97	201.66	202.35	203.04	203.73	204.43	205.12	205.81	206.50	207.19
1 3/4	212.71	213.46	214.20	214.94	215.69	216.43	217.18	217.92	218.66	219.41	220.15	220.89	221.64	222.38	223.13
2	227.91	228.70	229.50	230.30	231.09	231.89	232.69	233.48	234.28	235.08	235.88	236.67	237.47	238.27	239.06
2 1/4	243.10	243.95	244.80	245.65	246.50	247.35	248.20	249.05	249.90	250.75	251.60	252.45	253.30	254.15	255.00
2 1/2	273.49	274.44	275.40	276.36	277.31	278.27	279.23	280.18	281.14	282.09	283.05	284.01	284.96	285.92	286.88
2 3/4	303.88	304.94	306.00	307.06	308.13	309.19	310.25	311.31	312.38	313.44	314.50	315.56	316.63	317.69	318.75
3	334.26	335.43	336.60	337.77	338.94	340.11	341.28	342.44	343.61	344.78	345.95	347.12	348.29	349.46	350.63
3 1/4	364.65	365.93	367.20	368.48	369.75	371.03	372.30	373.58	374.85	376.13	377.40	378.68	379.95	381.23	382.50
3 1/2	395.04	396.42	397.80	399.18	400.56	401.94	403.33	404.71	406.09	407.47	408.85	410.23	411.61	412.99	414.38
3 3/4	425.43	426.91	428.40	429.89	431.38	432.86	434.35	435.84	437.33	438.81	440.30	441.79	443.28	444.76	446.25
4	455.81	457.41	459.00	460.59	462.19	463.78	465.37	466.97	468.56	470.16	471.75	473.34	474.94	476.53	478.13
4 1/4	486.20	487.90	489.60	491.30	493.00	494.70	496.40	498.10	499.80	501.50	503.20	504.90	506.60	508.30	510.00
4 1/2	516.59	518.39	520.20	522.01	523.81	525.62	527.43	529.23	531.04	532.84	534.65	536.46	538.26	540.07	541.88
4 3/4	546.98	548.89	550.80	552.71	554.63	556.54	558.45	560.36	562.28	564.19	566.10	568.01	569.93	571.84	573.75



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES													
	75 1/4	75 1/2	75 3/4	76	76 1/4	76 1/2	76 3/4	77	77 1/4	77 1/2	77 3/4	78	78 1/4	78 1/2
1/8	31.98	32.09	32.19	32.30	32.41	32.51	32.62	32.73	32.83	32.94	33.04	33.15	33.26	33.36
5/16	39.98	40.11	40.24	40.38	40.51	40.64	40.77	40.91	41.04	41.17	41.30	41.44	41.57	41.70
3/8	47.97	48.13	48.29	48.45	48.61	48.77	48.93	49.09	49.25	49.41	49.57	49.73	49.88	50.04
7/16	55.97	56.15	56.34	56.53	56.71	56.90	57.08	57.27	57.45	57.64	57.83	58.01	58.20	58.38
1/2	63.96	64.18	64.39	64.60	64.81	65.03	65.24	65.45	65.66	65.88	66.09	66.30	66.51	66.73
5/8	79.95	80.22	80.48	80.75	81.02	81.28	81.55	81.81	82.08	82.34	82.61	82.88	83.14	83.41
3/4	95.94	96.26	96.58	96.90	97.22	97.54	97.86	98.18	98.49	98.81	99.13	99.45	99.77	100.09
7/8	111.93	112.31	112.68	113.05	113.42	113.79	114.17	114.54	114.91	115.28	115.65	116.03	116.40	116.77
1 1/8	127.93	128.35	128.78	129.20	129.63	130.05	130.48	130.90	131.33	131.75	132.18	132.60	133.03	133.45
1 1/4	143.92	144.39	144.87	145.35	145.83	146.31	146.78	147.26	147.74	148.22	148.70	149.18	149.65	150.13
1 1/2	159.91	160.44	160.97	161.50	162.03	162.56	163.09	163.63	164.16	164.69	165.22	165.75	166.28	166.81
1 3/4	175.90	176.48	177.07	177.65	178.23	178.82	179.40	179.99	180.57	181.16	181.74	182.33	182.91	183.49
2	191.89	192.53	193.16	193.80	194.44	195.08	195.71	196.35	196.99	197.63	198.26	198.90	199.54	200.18
2 1/8	207.88	208.57	209.26	209.95	210.64	211.33	212.02	212.71	213.40	214.09	214.78	215.48	216.17	216.86
2 1/4	223.87	224.61	225.36	226.10	226.84	227.59	228.33	229.08	229.82	230.56	231.31	232.05	232.79	233.54
2 1/2	239.86	240.66	241.45	242.25	243.05	243.84	244.64	245.44	246.23	247.03	247.83	248.63	249.42	250.22
2 3/4	255.85	256.70	257.55	258.40	259.25	260.10	260.95	261.80	262.63	263.50	264.35	265.20	266.05	266.90
3	287.83	288.79	289.74	290.70	291.66	292.61	293.57	294.53	295.48	296.44	297.39	298.35	299.31	300.26
3 1/8	319.81	320.88	321.94	323.00	324.06	325.13	326.19	327.25	328.31	329.38	330.44	331.50	332.56	333.63
3 1/4	351.79	352.96	354.13	355.30	356.47	357.64	358.81	359.98	361.14	362.31	363.48	364.65	365.82	366.99
3 1/2	383.78	385.05	386.33	387.60	388.88	390.15	391.43	392.70	393.98	395.25	396.53	397.80	399.08	400.35
3 3/4	415.76	417.14	418.52	419.90	421.28	422.66	424.04	425.43	426.81	428.19	429.57	430.95	432.33	433.71
4	447.74	449.23	450.71	452.20	453.69	455.18	456.66	458.15	459.64	461.13	462.61	464.10	465.59	467.08
4 1/8	479.72	481.31	482.91	484.50	486.09	487.69	489.28	490.88	492.47	494.06	495.66	497.25	498.84	500.44
4 1/4	511.70	513.40	515.10	516.80	518.50	520.20	521.90	523.60	525.30	527.00	528.70	530.40	532.10	533.80
4 1/2	543.68	545.49	547.29	549.10	550.91	552.71	554.52	556.33	558.13	559.94	561.74	563.55	565.36	567.16
4 3/4	575.66	577.58	579.49	581.40	583.31	585.23	587.14	589.05	590.96	592.88	594.79	596.70	598.61	600.53

# Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES														
	79	79 1/4	79 1/2	79 3/4	80	80 1/4	80 1/2	80 3/4	81	81 1/4	81 1/2	81 3/4	82	82 1/4	82 1/2
1/8	33.58	33.68	33.79	33.89	34.00	34.11	34.21	34.32	34.43						
3/16	41.97	42.10	42.23	42.37	42.50	42.63	42.77	42.90	43.03						
1/4	50.36	50.52	50.68	50.84	51.00	51.16	51.32	51.48	51.64						
5/16	58.76	58.94	59.13	59.31	59.50	59.69	59.87	60.06	60.24						
3/8	67.15	67.36	67.58	67.79	68.00	68.21	68.43	68.64	68.85						
7/16	83.94	84.20	84.47	84.73	85.00	85.27	85.53	85.80	86.06						
1/2	100.73	101.04	101.36	101.68	102.00	102.32	102.64	102.96	103.28						
5/8	117.51	117.88	118.26	118.63	119.00	119.37	119.74	120.12	120.49						
3/4	134.30	134.73	135.15	135.58	136.00	136.43	136.85	137.28	137.70						
7/8	151.09	151.57	152.04	152.52	153.00	153.48	153.96	154.43	154.91						
1	167.88	168.41	168.94	169.47	170.00	170.53	171.06	171.59	172.13						
1 1/8	184.66	185.25	185.83	186.42	187.00	187.58	188.17	188.75	189.34						
1 1/4	201.45	202.09	202.73	203.36	204.00	204.64	205.28	205.91	206.55						
1 1/2	218.24	218.93	219.62	220.31	221.00	221.69	222.38	223.07	223.76						
1 3/8	235.03	235.77	236.51	237.26	238.00	238.74	239.49	240.23	240.98						
1 1/2	251.81	252.61	253.41	254.20	255.00	255.80	256.59	257.39	258.19						
1 5/8	268.60	269.45	270.30	271.15	272.00	272.85	273.70	274.55	275.40						
1 3/4	302.18	303.13	304.09	305.04	306.00	306.96	307.91	308.87	309.83						
1 7/8	335.75	336.81	337.88	338.94	340.00	341.06	342.13	343.19	344.25						
2	369.33	370.49	371.66	372.83	374.00	375.17	376.34	377.51	378.68						
2 1/8	402.90	404.18	405.45	406.73	408.00	409.28	410.55	411.83	413.10						
2 1/4	436.48	437.86	439.24	440.62	442.00	443.38	444.76	446.14	447.53						
2 3/8	470.05	471.54	473.03	474.51	476.00	477.49	478.98	480.46	481.95						
2 1/2	503.63	505.22	506.81	508.41	510.00	511.59	513.19	514.78	516.38						
2 3/4	537.20	538.90	540.60	542.30	544.00	545.70	547.40	549.10	550.80						
2 5/8	570.78	572.58	574.39	576.19	578.00	579.81	581.61	583.42	585.23						
2 3/4	604.35	606.26	608.18	610.09	612.00	613.91	615.83	617.74	619.65						



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	82 3/4	83	83 1/4	83 1/2	83 3/4	84	84 1/4	84 1/2	84 3/4	85	85 1/4	85 1/2	85 3/4	86	86 1/4	
7/16	61.55	61.73	61.92	62.10	62.29	62.48	62.66	62.85	63.03	63.22	63.40	63.59	63.78	63.96	64.15	
1/4	70.34	70.55	70.76	70.98	71.19	71.40	71.61	71.83	72.04	72.25	72.46	72.68	72.89	73.10	73.31	
5/16	87.92	88.19	88.45	88.72	88.98	89.25	89.52	89.78	90.05	90.31	90.58	90.84	91.11	91.38	91.64	
3/8	105.51	105.83	106.14	106.46	106.78	107.10	107.42	107.74	108.06	108.38	108.69	109.01	109.33	109.65	109.97	
7/8	123.09	123.46	123.83	124.21	124.58	124.95	125.32	125.69	126.07	126.44	126.81	127.18	127.55	127.93	128.30	
1 1/2	140.68	141.10	141.53	141.95	142.38	142.80	143.23	143.65	144.08	144.50	144.93	145.35	145.78	146.20	146.63	
9/16	158.26	158.74	159.22	159.69	160.17	160.65	161.13	161.61	162.08	162.56	163.04	163.52	164.00	164.48	164.95	
5/8	175.84	176.38	176.91	177.44	177.97	178.50	179.03	179.56	180.09	180.63	181.16	181.69	182.22	182.75	183.28	
11/16	193.43	194.01	194.60	195.18	195.77	196.35	196.93	197.52	198.10	198.69	199.27	199.86	200.44	201.03	201.61	
3/4	211.01	211.65	212.29	212.93	213.56	214.20	214.84	215.48	216.11	216.75	217.39	218.03	218.66	219.30	219.94	
13/16	228.60	229.29	229.98	230.67	231.36	232.05	232.74	233.43	234.12	234.81	235.50	236.19	236.88	237.58	238.27	
7/8	246.18	246.93	247.67	248.41	249.16	249.90	250.64	251.39	252.13	252.88	253.62	254.36	255.11	255.85	256.59	
15/16	263.77	264.56	265.36	266.16	266.95	267.75	268.55	269.34	270.14	270.94	271.73	272.53	273.33	274.13	274.92	
1	281.35	282.20	283.05	283.90	284.75	285.60	286.45	287.30	288.15	289.00	289.85	290.70	291.55	292.40	293.25	
1 1/8	316.52	317.48	318.43	319.39	320.34	321.30	322.26	323.21	324.17	325.13	326.08	327.04	327.99	328.95	329.91	
1 1/4	351.69	352.75	353.81	354.88	355.94	357.00	358.06	359.13	360.19	361.25	362.31	363.38	364.44	365.50	366.56	
1 1/2	386.86	388.03	389.19	390.36	391.53	392.70	393.87	395.04	396.21	397.38	398.54	399.71	400.88	402.05	403.22	
1 3/4	422.03	423.30	424.58	425.85	427.13	428.40	429.68	430.95	432.23	433.50	434.78	436.05	437.33	438.60	439.88	
2	457.19	458.58	459.96	461.34	462.72	464.10	465.48	466.86	468.24	469.63	471.01	472.39	473.77	475.15	476.53	
2 1/8	492.36	493.85	495.34	496.83	498.31	499.80	501.29	502.78	504.26	505.75	507.24	508.73	510.21	511.70	513.19	
2 1/4	527.53	529.13	530.72	532.31	533.91	535.50	537.09	538.68	540.27	541.86	543.45	545.04	546.63	548.22	549.81	
2 1/2	562.70	564.40	566.10	567.80	569.50	571.20	572.90	574.60	576.30	578.00	579.70	581.40	583.10	584.80	586.50	
2 3/4	597.87	599.68	601.48	603.29	605.09	606.90	608.71	610.51	612.32	614.13	615.93	617.74	619.54	621.35	623.16	
3	633.04	634.95	636.86	638.78	640.69	642.60	644.51	646.43	648.34	650.25	652.16	654.08	655.99	657.90	659.81	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES															
	86½	86¾	87	87¼	87½	87¾	88	88¼	88½	88¾	89	89¼	89½	89¾	90	
7/16	64.33	64.52	64.71	64.89	65.08	65.26	65.45	65.64	65.82	66.01	66.19	66.38	66.57	66.75	66.94	
3/8	73.53	73.74	73.95	74.16	74.38	74.59	74.80	75.01	75.23	75.44	75.65	75.86	76.08	76.29	76.50	
5/16	91.91	92.17	92.44	92.70	92.97	93.23	93.50	93.77	94.03	94.30	94.56	94.83	95.09	95.36	95.63	
7/16	110.29	110.61	110.93	111.24	111.56	111.88	112.20	112.52	112.84	113.16	113.48	113.79	114.11	114.43	114.75	
1/2	128.67	129.04	129.41	129.78	130.16	130.53	130.90	131.27	131.64	132.02	132.39	132.76	133.13	133.50	133.88	
5/8	147.05	147.48	147.90	148.33	148.75	149.18	149.60	150.03	150.45	150.88	151.30	151.73	152.15	152.58	153.00	
3/4	165.43	165.91	166.39	166.87	167.34	167.82	168.30	168.78	169.26	169.73	170.21	170.69	171.17	171.65	172.13	
7/8	183.81	184.34	184.88	185.41	185.94	186.47	187.00	187.53	188.06	188.59	189.13	189.66	190.19	190.72	191.25	
1 1/16	202.19	202.78	203.36	203.95	204.53	205.12	205.70	206.28	206.87	207.45	208.04	208.62	209.21	209.79	210.38	
1 1/8	220.58	221.21	221.85	222.49	223.13	223.76	224.40	225.04	225.68	226.31	226.95	227.59	228.23	228.86	229.50	
1 1/4	238.96	239.65	240.34	241.03	241.72	242.41	243.10	243.79	244.48	245.17	245.86	246.55	247.24	247.93	248.63	
1 1/2	257.34	258.08	258.83	259.57	260.31	261.06	261.80	262.54	263.29	264.03	264.78	265.52	266.26	267.01	267.75	
1 3/8	275.72	276.52	277.31	278.11	278.91	279.70	280.50	281.30	282.09	282.89	283.69	284.48	285.28	286.08	286.88	
1 1/2	294.10	294.95	295.80	296.65	297.50	298.35	299.20	300.05	300.90	301.75	302.60	303.45	304.30	305.15	306.00	
1 5/8	330.86	331.82	332.78	333.73	334.69	335.64	336.60	337.56	338.51	339.47	340.43	341.38	342.34	343.29	344.25	
1 3/4	367.63	368.69	369.75	370.81	371.88	372.94	374.00	375.06	376.13	377.19	378.25	379.31	380.38	381.44	382.50	
1 7/8	404.39	405.56	406.73	407.89	409.06	410.23	411.40	412.57	413.74	414.91	416.08	417.24	418.41	419.58	420.75	
2	441.15	442.43	443.70	444.98	446.25	447.53	448.80	450.08	451.35	452.63	453.90	455.18	456.45	457.73	459.00	
2 1/8	477.91	479.29	480.67	482.06	483.44	484.82	486.20	487.58	488.96	490.34	491.73	493.11	494.49	495.87	497.25	
2 1/4	514.68	516.16	517.65	519.14	520.63	522.11	523.60	525.09	526.58	528.07	529.55	531.04	532.53	534.01	535.50	
2 3/8	551.44	553.03	554.63	556.22	557.81	559.41	561.00	562.59	564.19	565.78	567.38	568.97	570.56	572.16	573.75	
2 1/2	588.20	589.90	591.60	593.30	595.00	596.70	598.40	600.10	601.80	603.50	605.20	606.90	608.60	610.30	612.00	
2 3/4	624.96	626.77	628.58	630.38	632.19	633.99	635.80	637.61	639.41	641.22	643.03	644.83	646.64	648.44	650.25	
2 5/8	661.73	663.64	665.55	667.46	669.38	671.29	673.20	675.11	677.03	678.94	680.85	682.76	684.68	686.59	688.50	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	90 1/4	90 1/2	90 3/4	91	91 1/4	91 1/2	91 3/4	92	92 1/4	92 1/2	92 3/4	93	93 1/4	93 1/2	93 3/4
1/4	67.12	67.31	67.50	67.68	67.87	68.05	68.24	68.43	68.61	68.80	68.98	69.17	69.35	69.54	69.73
1/4	76.71	76.93	77.14	77.35	77.56	77.78	77.99	78.20	78.41	78.63	78.84	79.05	79.26	79.48	79.69
5/16	95.89	96.16	96.42	96.69	96.95	97.22	97.48	97.75	98.02	98.28	98.55	98.81	99.08	99.34	99.61
3/8	115.07	115.39	115.71	116.03	116.34	116.66	116.98	117.30	117.62	117.94	118.26	118.58	118.89	119.21	119.53
1/2	134.25	134.62	134.99	135.36	135.73	136.11	136.48	136.85	137.22	137.59	137.97	138.34	138.71	139.08	139.45
1 1/4	153.43	153.85	154.28	154.70	155.13	155.55	155.98	156.40	156.83	157.25	157.68	158.10	158.53	158.95	159.38
1 1/2	172.60	173.08	173.56	174.04	174.52	174.99	175.47	175.95	176.43	176.91	177.38	177.86	178.34	178.82	179.30
1 3/8	191.78	192.31	192.84	193.38	193.91	194.44	194.97	195.50	196.03	196.56	197.09	197.63	198.16	198.69	199.22
1 1/2	210.96	211.54	212.13	212.71	213.30	213.88	214.47	215.05	215.63	216.22	216.80	217.39	217.97	218.56	219.14
1 3/4	230.14	230.78	231.41	232.05	232.69	233.33	233.96	234.60	235.24	235.88	236.51	237.15	237.79	238.43	239.06
1 3/8	249.32	250.01	250.70	251.39	252.08	252.77	253.46	254.15	254.84	255.53	256.22	256.91	257.60	258.29	258.98
1 1/2	268.49	269.24	269.98	270.73	271.47	272.21	272.96	273.70	274.44	275.19	275.93	276.68	277.42	278.16	278.91
1 3/8	287.67	288.47	289.27	290.06	290.86	291.66	292.45	293.25	294.05	294.84	295.64	296.44	297.23	298.03	298.83
1 1/2	306.85	307.70	308.55	309.40	310.25	311.10	311.95	312.80	313.65	314.50	315.35	316.20	317.05	317.90	318.75
1 3/8	345.21	346.16	347.12	348.08	349.03	349.99	350.94	351.90	352.86	353.81	354.77	355.73	356.68	357.64	358.59
1 1/2	383.56	384.63	385.69	386.75	387.81	388.88	389.94	391.00	392.06	393.13	394.19	395.25	396.31	397.38	398.44
1 3/8	421.92	423.09	424.26	425.43	426.59	427.76	428.93	430.10	431.27	432.44	433.61	434.78	435.94	437.11	438.28
1 1/2	460.28	461.55	462.83	464.10	465.38	466.65	467.93	469.20	470.48	471.75	473.03	474.30	475.58	476.85	478.13
1 3/8	498.63	500.01	501.39	502.78	504.16	505.54	506.92	508.30	509.68	511.06	512.44	513.83	515.21	516.59	517.97
1 1/2	536.99	538.48	539.96	541.45	542.94	544.43	545.91	547.40	548.89	550.38	551.86	553.35	554.84	556.33	557.81
1 3/8	575.34	576.94	578.53	580.13	581.72	583.31	584.91	586.50	588.09	589.69	591.28	592.87	594.47	596.06	597.66
2	613.70	615.40	617.10	618.80	620.50	622.20	623.90	625.60	627.30	629.00	630.70	632.40	634.10	635.80	637.50
2 3/8	652.06	653.86	655.67	657.48	659.28	661.09	662.89	664.70	666.51	668.31	670.12	671.93	673.73	675.54	677.34
2 1/2	690.41	692.33	694.24	696.15	698.06	699.98	701.89	703.80	705.71	707.63	709.54	711.45	713.36	715.28	717.19



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	94	94 1/4	94 1/2	94 3/4	95	95 1/4	95 1/2	95 3/4	96	96 1/4	96 1/2	96 3/4	97	97 1/4	97 1/2	97 3/4
7/32	69.91	70.10	70.28	70.47	70.66	70.84	71.03	71.21	71.40	71.59	71.77	71.96	72.14	72.33	72.52	72.71
1/4	79.90	80.11	80.33	80.54	80.75	80.96	81.18	81.39	81.60	81.81	82.03	82.24	82.45	82.66	82.88	83.09
5/16	99.88	100.14	100.41	100.67	100.94	101.20	101.47	101.73	102.00	102.27	102.53	102.80	103.06	103.33	103.59	103.86
3/8	119.85	120.17	120.49	120.81	121.13	121.44	121.76	122.08	122.40	122.72	123.04	123.36	123.68	123.99	124.31	124.63
7/16	139.83	140.20	140.57	140.94	141.31	141.68	142.06	142.43	142.80	143.17	143.54	143.92	144.29	144.66	145.03	145.40
1/2	159.80	160.23	160.65	161.08	161.50	161.93	162.35	162.78	163.20	163.63	164.05	164.48	164.90	165.33	165.75	166.18
9/16	179.78	180.25	180.73	181.21	181.69	182.17	182.64	183.12	183.60	184.08	184.56	185.03	185.51	185.99	186.47	186.95
5/8	199.75	200.28	200.81	201.34	201.88	202.41	202.94	203.47	204.00	204.53	205.06	205.59	206.13	206.66	207.19	207.72
11/16	219.73	220.31	220.89	221.48	222.06	222.65	223.23	223.82	224.40	224.98	225.57	226.15	226.74	227.32	227.91	228.49
3/4	239.70	240.34	240.98	241.61	242.25	242.89	243.53	244.16	244.80	245.44	246.08	246.71	247.35	247.99	248.63	249.27
13/16	259.68	260.37	261.06	261.75	262.44	263.13	263.82	264.51	265.20	265.89	266.58	267.27	267.96	268.65	269.34	269.99
7/8	279.65	280.39	281.14	281.88	282.63	283.37	284.11	284.86	285.60	286.34	287.09	287.83	288.58	289.32	290.06	290.80
15/16	299.63	300.42	301.22	302.02	302.81	303.61	304.41	305.20	306.00	306.80	307.59	308.39	309.19	309.98	310.78	311.58
1	319.60	320.45	321.30	322.15	323.00	323.85	324.70	325.55	326.40	327.25	328.10	328.95	329.80	330.65	331.50	332.35
1 1/8	359.55	360.51	361.46	362.42	363.38	364.33	365.29	366.24	367.20	368.16	369.11	370.07	371.03	371.98	372.94	373.89
1 1/4	399.50	400.56	401.63	402.69	403.75	404.81	405.88	406.94	408.00	409.06	410.13	411.19	412.25	413.31	414.38	415.44
1 1/2	439.45	440.62	441.79	442.96	444.13	445.29	446.46	447.63	448.80	449.97	451.14	452.31	453.48	454.64	455.81	456.98
1 3/4	479.40	480.68	481.95	483.23	484.50	485.78	487.05	488.33	489.60	490.88	492.15	493.43	494.70	495.98	497.25	498.53
1 5/8	519.35	520.73	522.11	523.49	524.88	526.26	527.64	529.02	530.40	531.78	533.16	534.54	535.93	537.31	538.69	540.07
1 3/4	559.30	560.79	562.28	563.76	565.25	566.74	568.23	569.71	571.20	572.69	574.18	575.66	577.15	578.64	580.13	581.62
1 7/8	599.25	600.84	602.44	604.03	605.63	607.22	608.81	610.41	612.00	613.59	615.19	616.78	618.38	619.97	621.56	623.15
2	639.20	640.90	642.60	644.30	646.00	647.70	649.40	651.10	652.80	654.50	656.20	657.90	659.60	661.30	663.00	664.70
2 1/8	679.15	680.96	682.76	684.57	686.38	688.18	689.99	691.79	693.60	695.41	697.21	699.02	700.83	702.63	704.44	706.25
2 1/4	719.10	721.01	722.93	724.84	726.75	728.66	730.58	732.49	734.40	736.31	738.23	740.14	742.05	743.96	745.88	747.79



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

WIDTH, INCHES

Thickness, Inches	97 3/4	98	98 1/4	98 1/2	98 3/4	99	99 1/4	99 1/2	99 3/4	100	100 1/4	100 1/2	100 3/4	101	101 1/4
7/16	72.70	72.89	73.07	73.26	73.45	73.63	73.82	74.00	74.19	74.38	74.56	74.75	74.93	75.12	75.30
1/4	83.09	83.30	83.51	83.73	83.94	84.15	84.36	84.58	84.79	85.00	85.21	85.43	85.64	85.85	86.06
5/16	103.86	104.13	104.39	104.66	104.92	105.19	105.45	105.72	105.98	106.25	106.52	106.78	107.05	107.31	107.58
3/8	124.63	124.95	125.27	125.59	125.91	126.23	126.54	126.86	127.18	127.50	127.82	128.14	128.46	128.78	129.09
7/16	145.40	145.78	146.15	146.52	146.89	147.26	147.63	148.01	148.38	148.75	149.12	149.49	149.87	150.24	150.61
1/2	166.18	166.60	167.03	167.45	167.88	168.30	168.73	169.15	169.58	170.00	170.43	170.85	171.28	171.70	172.13
9/16	186.95	187.43	187.90	188.38	188.86	189.34	189.82	190.29	190.77	191.25	191.73	192.21	192.68	193.16	193.64
5/8	207.72	208.25	208.78	209.31	209.84	210.38	210.91	211.44	211.97	212.50	213.03	213.56	214.09	214.63	215.16
11/16	228.49	229.08	229.66	230.24	230.83	231.41	232.00	232.58	233.17	233.75	234.33	234.92	235.50	236.09	236.67
3/4	249.26	249.90	250.54	251.18	251.81	252.45	253.09	253.73	254.36	255.00	255.64	256.28	256.91	257.55	258.19
13/16	270.03	270.73	271.42	272.11	272.80	273.49	274.18	274.87	275.56	276.25	276.94	277.63	278.32	279.01	279.70
7/8	290.81	291.55	292.29	293.04	293.78	294.53	295.27	296.01	296.76	297.50	298.24	298.99	299.73	300.48	301.22
15/16	311.58	312.38	313.17	313.97	314.77	315.56	316.36	317.16	317.95	318.75	319.55	320.34	321.14	321.94	322.73
1	332.35	333.20	334.05	334.90	335.75	336.60	337.45	338.30	339.15	340.00	340.85	341.70	342.55	343.40	344.25
1 1/16	373.89	374.85	375.81	376.76	377.72	378.68	379.63	380.59	381.54	382.50	383.46	384.41	385.37	386.33	387.28
1 1/8	415.44	416.50	417.56	418.63	419.69	420.75	421.81	422.88	423.94	425.00	426.06	427.13	428.19	429.25	430.31
1 1/4	456.98	458.15	459.32	460.49	461.66	462.83	463.99	465.16	466.33	467.50	468.67	469.84	471.01	472.18	473.34
1 1/2	498.53	499.80	501.08	502.35	503.63	504.90	506.18	507.45	508.73	510.00	511.28	512.55	513.83	515.10	516.38
1 3/8	540.07	541.45	542.83	544.21	545.59	546.98	548.36	549.74	551.12	552.50	553.88	555.26	556.64	558.03	559.41
1 1/2	581.61	583.10	584.59	586.08	587.56	589.05	590.54	592.03	593.51	595.00	596.49	597.98	599.46	600.95	602.44
1 5/8	623.16	624.75	626.34	627.94	629.53	631.13	632.72	634.31	635.91	637.50	639.09	640.69	642.28	643.88	645.47
2	664.70	666.40	668.10	669.80	671.50	673.20	674.90	676.60	678.30	680.00	681.70	683.40	685.10	686.80	688.50
2 1/8	706.24	708.05	709.86	711.66	713.47	715.28	717.08	718.89	720.69	722.50	724.31	726.11	727.92	729.73	731.53
2 1/4	747.79	749.70	751.61	753.53	755.44	757.35	759.26	761.18	763.09	765.00	766.91	768.83	770.74	772.65	774.56

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES														
	101 1/2	101 3/4	102	102 1/4	102 1/2	102 3/4	103	103 1/4	103 1/2	103 3/4	104	104 1/4	104 1/2	104 3/4	
7/4	75.49	75.68	75.86	76.05	76.23	76.42	76.61	76.79	76.98	77.16	77.35	77.54	77.72	77.91	
1/4	86.28	86.49	86.70	86.91	87.13	87.34	87.55	87.76	87.98	88.19	88.40	88.61	88.83	89.04	
5/16	107.84	108.11	108.38	108.64	108.91	109.17	109.44	109.70	109.97	110.23	110.50	110.77	111.03	111.30	
3/8	129.41	129.73	130.05	130.37	130.69	131.01	131.33	131.64	131.96	132.28	132.60	132.92	133.24	133.56	
7/16	150.98	151.35	151.73	152.10	152.47	152.84	153.21	153.58	153.96	154.33	154.70	155.07	155.44	155.82	
1/2	172.55	172.98	173.40	173.83	174.25	174.68	175.10	175.53	175.95	176.38	176.80	177.23	177.65	178.08	
9/16	194.12	194.60	195.08	195.55	196.03	196.51	196.99	197.47	197.94	198.42	198.90	199.38	199.86	200.33	
5/8	215.60	216.22	216.75	217.28	217.81	218.34	218.88	219.41	219.94	220.47	221.00	221.53	222.06	222.59	
11/16	237.26	237.84	238.43	239.01	239.59	240.18	240.76	241.35	241.93	242.52	243.10	243.68	244.27	244.85	
3/4	258.83	259.46	260.10	260.74	261.38	262.01	262.65	263.29	263.93	264.56	265.20	265.84	266.48	267.11	
13/16	280.39	281.08	281.78	282.47	283.16	283.85	284.54	285.23	285.92	286.61	287.30	287.99	288.68	289.37	
7/8	301.96	302.71	303.45	304.19	304.94	305.68	306.43	307.17	307.91	308.66	309.40	310.14	310.89	311.63	
15/16	323.53	324.33	325.13	325.92	326.72	327.52	328.31	329.11	329.91	330.70	331.50	332.30	333.09	333.89	
1	345.10	345.95	346.80	347.65	348.50	349.35	350.20	351.05	351.90	352.75	353.60	354.45	355.30	356.15	
1 1/8	388.24	389.19	390.15	391.11	392.06	393.02	393.98	394.93	395.89	396.84	397.80	398.76	399.71	400.67	
1 1/4	431.38	432.44	433.50	434.56	435.63	436.69	437.75	438.81	439.88	440.94	442.00	443.06	444.13	445.19	
1 3/8	474.51	475.68	476.85	478.02	479.19	480.36	481.53	482.69	483.86	485.03	486.20	487.37	488.54	489.71	
1 1/2	517.65	518.93	520.20	521.48	522.75	524.03	525.30	526.58	527.85	529.13	530.40	531.68	532.95	534.22	
1 5/8	560.79	562.17	563.55	564.93	566.31	567.69	569.08	570.46	571.84	573.22	574.60	575.98	577.36	578.74	
1 3/4	603.93	605.41	606.90	608.39	609.88	611.36	612.85	614.34	615.83	617.31	618.80	620.29	621.78	623.26	
1 7/8	647.06	648.66	650.25	651.84	653.44	655.03	656.63	658.22	659.81	661.41	663.00	664.59	666.19	667.78	
2	690.20	691.90	693.60	695.30	697.00	698.70	700.40	702.10	703.80	705.50	707.20	708.90	710.60	712.30	
2 1/8	733.34	735.14	736.95	738.76	740.56	742.37	744.18	745.98	747.79	749.59	751.40	753.21	755.01	756.82	
2 1/4	776.48	778.39	780.30	782.21	784.13	786.04	787.95	789.86	791.78	793.69	795.60	797.51	799.43	801.34	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES													
	105	105 1/4	105 1/2	105 3/4	106	106 1/4	106 1/2	106 3/4	107	107 1/4	107 1/2	107 3/4	108	108 1/4
7/8	78.09	78.28	78.47	78.65	78.84	79.02	79.21	79.40	79.58	79.77	79.95	80.14	80.33	80.51
3/4	89.25	89.46	89.68	89.89	90.10	90.31	90.53	90.74	90.95	91.16	91.38	91.59	91.80	92.01
5/8	111.56	111.83	112.09	112.36	112.63	112.89	113.16	113.42	113.69	113.95	114.22	114.48	114.75	115.02
7/16	133.88	134.19	134.51	134.83	135.15	135.47	135.79	136.11	136.43	136.74	137.06	137.38	137.70	138.02
1/2	156.19	156.56	156.93	157.30	157.68	158.05	158.42	158.79	159.16	159.53	159.91	160.28	160.65	161.02
1/2	178.50	178.93	179.35	179.78	180.20	180.63	181.05	181.48	181.90	182.33	182.75	183.18	183.60	184.03
9/16	200.81	201.29	201.77	202.25	202.73	203.20	203.68	204.16	204.64	205.12	205.59	206.07	206.55	207.03
1/2	223.13	223.66	224.19	224.72	225.25	225.78	226.31	226.84	227.38	227.91	228.44	228.97	229.50	230.03
1 1/16	245.44	246.02	246.61	247.19	247.78	248.36	248.94	249.53	250.11	250.70	251.28	251.87	252.45	253.03
1 1/8	267.75	268.39	269.03	269.66	270.30	270.94	271.58	272.21	272.85	273.49	274.13	274.76	275.40	276.04
1 1/4	290.06	290.75	291.44	292.13	292.83	293.52	294.21	294.90	295.59	296.28	296.97	297.66	298.35	299.04
1 1/2	312.38	313.12	313.86	314.61	315.35	316.09	316.84	317.58	318.33	319.07	319.81	320.56	321.30	322.04
1 3/8	334.69	335.48	336.28	337.08	337.88	338.67	339.47	340.27	341.06	341.86	342.66	343.45	344.25	345.05
1 1/2	357.00	357.85	358.70	359.55	360.40	361.25	362.10	362.95	363.80	364.65	365.50	366.35	367.20	368.05
1 1/2	401.63	402.58	403.54	404.49	405.45	406.41	407.36	408.32	409.28	410.23	411.19	412.14	413.10	414.06
1 1/2	446.25	447.31	448.38	449.44	450.50	451.56	452.63	453.69	454.75	455.81	456.88	457.94	459.00	460.06
1 1/2	490.88	492.04	493.21	494.38	495.55	496.72	497.89	499.06	500.23	501.39	502.56	503.73	504.90	506.07
1 1/2	535.50	536.78	538.05	539.33	540.60	541.88	543.15	544.43	545.70	546.98	548.25	549.53	550.80	552.08
1 1/2	580.13	581.51	582.89	584.27	585.65	587.03	588.41	589.79	591.18	592.56	593.94	595.32	596.70	598.08
1 1/2	624.75	626.24	627.73	629.21	630.70	632.19	633.68	635.16	636.65	638.14	639.63	641.11	642.60	644.09
1 1/2	669.38	670.97	672.56	674.16	675.75	677.34	678.94	680.53	682.13	683.72	685.31	686.91	688.50	690.09
2	714.00	715.70	717.40	719.10	720.80	722.50	724.20	725.90	727.60	729.30	731.00	732.70	734.40	736.10
2 1/8	758.63	760.43	762.24	764.04	765.85	767.66	769.46	771.27	773.08	774.88	776.69	778.49	780.30	782.11
2 1/4	803.25	805.16	807.08	808.99	810.90	812.81	814.73	816.64	818.55	820.46	822.38	824.29	826.20	828.11



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES															
	108 1/2	108 3/4	109	109 1/4	109 1/2	109 3/4	110	110 1/4	110 1/2	110 3/4	111	111 1/4	111 1/2	111 3/4	112	112 1/2
7/16	80.70	80.88	81.07	81.25	81.44	81.63	81.81	82.00	82.18	82.37	82.56	82.74	82.93	83.11		
1/4	92.23	92.44	92.65	92.86	93.08	93.29	93.50	93.71	93.93	94.14	94.35	94.56	94.78	94.99		
5/16	115.28	115.55	115.81	116.08	116.34	116.61	116.88	117.14	117.41	117.67	117.94	118.20	118.47	118.73		
3/8	138.34	138.66	138.98	139.29	139.61	139.93	140.25	140.57	140.89	141.21	141.53	141.84	142.16	142.48		
7/8	161.39	161.77	162.14	162.51	162.88	163.25	163.63	164.00	164.37	164.74	165.11	165.48	165.86	166.23		
1/2	184.45	184.88	185.30	185.73	186.15	186.58	187.00	187.43	187.85	188.28	188.70	189.13	189.55	189.98		
9/16	207.51	207.98	208.46	208.94	209.42	209.90	210.38	210.85	211.33	211.81	212.29	212.77	213.24	213.72		
5/8	230.56	231.09	231.63	232.16	232.69	233.22	233.75	234.28	234.81	235.34	235.88	236.41	236.94	237.47		
11/16	253.62	254.20	254.79	255.37	255.96	256.54	257.13	257.71	258.29	258.88	259.46	260.05	260.63	261.22		
3/4	276.68	277.31	277.95	278.59	279.23	279.86	280.50	281.14	281.78	282.42	283.05	283.69	284.33	284.96		
13/16	299.73	300.42	301.11	301.80	302.49	303.18	303.88	304.57	305.26	305.95	306.64	307.33	308.02	308.71		
7/8	322.79	323.53	324.28	325.02	325.76	326.51	327.25	327.99	328.74	329.48	330.23	330.97	331.71	332.46		
15/16	345.84	346.64	347.44	348.23	349.03	349.83	350.63	351.42	352.22	353.02	353.81	354.61	355.41	356.20		
1	368.90	369.75	370.60	371.45	372.30	373.15	374.00	374.85	375.70	376.55	377.40	378.25	379.10	379.95		
1 1/16	415.01	415.97	416.93	417.88	418.84	419.79	420.75	421.71	422.66	423.62	424.58	425.53	426.49	427.44		
1 1/4	461.13	462.19	463.25	464.31	465.38	466.44	467.50	468.56	469.63	470.69	471.75	472.81	473.88	474.94		
1 3/8	507.24	508.41	509.58	510.74	511.91	513.08	514.25	515.42	516.59	517.76	518.93	520.09	521.26	522.43		
1 1/2	553.35	554.63	555.90	557.18	558.45	559.73	561.00	562.28	563.55	564.83	566.10	567.38	568.65	569.93		
1 5/8	599.46	600.84	602.23	603.61	604.99	606.37	607.75	609.13	610.51	611.89	613.28	614.66	616.04	617.42		
1 3/4	645.58	647.06	648.55	650.04	651.53	653.01	654.50	655.99	657.48	658.96	660.45	661.94	663.43	664.91		
1 7/8	691.69	693.28	694.88	696.47	698.06	699.66	701.25	702.84	704.43	706.03	707.62	709.21	710.81	712.41		
2	737.80	739.50	741.20	742.90	744.60	746.30	748.00	749.70	751.40	753.10	754.80	756.50	758.20	759.90		
2 1/8	783.91	785.72	787.53	789.33	791.14	792.94	794.75	796.56	798.36	800.17	801.98	803.78	805.59	807.39		
2 1/4	830.03	831.94	833.85	835.76	837.68	839.59	841.50	843.41	845.33	847.24	849.15	851.06	852.98	854.89		



Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

Thickness, Inches	WIDTH, INCHES															
	112	112 1/4	112 1/2	112 3/4	113	113 1/4	113 1/2	113 3/4	114	114 1/4	114 1/2	114 3/4	115	115 1/2	115 3/4	115 1/2
1 1/2	83.30	83.49	83.67	83.86	84.04	84.23	84.42	84.60	84.79	84.97	85.16	85.35	85.53	85.72	85.91	86.10
1 1/4	95.20	95.41	95.63	95.84	96.05	96.26	96.48	96.69	96.90	97.11	97.33	97.54	97.75	97.96	98.17	98.38
1 1/8	119.00	119.27	119.53	119.80	120.06	120.33	120.59	120.86	121.13	121.39	121.66	121.92	122.19	122.45	122.71	122.97
1 1/8	142.80	143.12	143.44	143.76	144.08	144.39	144.71	145.03	145.35	145.67	145.99	146.31	146.63	146.94	147.26	147.58
1 1/8	166.60	166.97	167.34	167.71	168.08	168.45	168.83	169.20	169.58	169.95	170.32	170.69	171.06	171.43	171.80	172.17
1 1/8	190.40	190.83	191.25	191.68	192.10	192.53	192.95	193.38	193.80	194.23	194.65	195.08	195.50	195.93	196.35	196.78
1 1/8	214.20	214.68	215.16	215.63	216.11	216.59	217.07	217.55	218.03	218.50	218.98	219.46	219.94	220.42	220.89	221.37
1 1/8	238.00	238.53	239.06	239.59	240.13	240.66	241.19	241.72	242.25	242.78	243.31	243.84	244.38	244.91	245.44	245.97
1 1/8	261.80	262.38	262.97	263.55	264.14	264.72	265.31	265.89	266.48	267.06	267.64	268.23	268.81	269.40	269.98	270.56
1 1/8	285.60	286.24	286.88	287.51	288.15	288.79	289.43	290.06	290.70	291.34	291.98	292.61	293.25	293.89	294.52	295.16
1 1/8	309.40	310.09	310.78	311.47	312.16	312.85	313.54	314.23	314.93	315.62	316.31	317.00	317.69	318.38	319.07	319.76
1 1/8	333.20	333.94	334.69	335.43	336.18	336.92	337.66	338.41	339.15	339.89	340.64	341.38	342.13	342.87	343.61	344.35
1 1/8	357.00	357.80	358.59	359.39	360.19	360.98	361.78	362.58	363.38	364.17	364.97	365.77	366.56	367.36	368.15	368.95
1 1/8	380.80	381.65	382.50	383.35	384.20	385.05	385.90	386.75	387.60	388.45	389.30	390.15	391.00	391.85	392.70	393.55
1 1/8	428.40	429.36	430.31	431.27	432.23	433.18	434.14	435.09	436.05	437.01	437.96	438.92	439.88	440.83	441.79	442.74
1 1/8	476.00	477.06	478.13	479.19	480.25	481.31	482.38	483.44	484.50	485.56	486.63	487.69	488.75	489.81	490.87	491.93
1 1/8	523.60	524.77	525.94	527.11	528.28	529.44	530.61	531.78	532.95	534.12	535.29	536.46	537.63	538.79	539.96	541.13
1 1/8	571.20	572.48	573.75	575.03	576.30	577.58	578.85	580.13	581.40	582.68	583.95	585.23	586.50	587.78	589.05	590.33
1 1/8	618.80	620.18	621.56	622.94	624.33	625.71	627.09	628.47	629.85	631.23	632.61	633.99	635.38	636.76	638.14	639.52
1 1/8	666.40	667.89	669.38	670.86	672.35	673.84	675.33	676.81	678.30	679.79	681.28	682.76	684.25	685.74	687.22	688.71
1 1/8	714.00	715.59	717.19	718.78	720.38	721.97	723.56	725.16	726.75	728.34	729.94	731.53	733.13	734.72	736.31	737.90
1 1/8	761.60	763.30	765.00	766.70	768.40	770.10	771.80	773.50	775.20	776.90	778.60	780.30	782.00	783.70	785.40	787.10
2	809.20	811.01	812.81	814.62	816.43	818.23	820.04	821.84	823.65	825.46	827.26	829.07	830.88	832.68	834.49	836.29
2 1/4	856.80	858.71	860.63	862.54	864.45	866.36	868.28	870.19	872.10	874.01	875.93	877.84	879.75	881.66	883.57	885.48

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES															
	115½	115¾	116	116¼	116½	116¾	117	117¼	117½	117¾	118	118¼	118½	118¾	119	119½
7/16	85.90	86.09	86.28	86.46	86.65	86.83	87.02	87.20	87.39	87.58	87.76	87.95	88.13	88.32		
1/4	98.18	98.39	98.60	98.81	99.03	99.24	99.45	99.66	99.88	100.09	100.30	100.51	100.73	100.94		
5/16	122.72	122.98	123.25	123.52	123.78	124.05	124.31	124.58	124.84	125.11	125.38	125.64	125.91	126.17		
3/8	147.26	147.58	147.90	148.22	148.54	148.86	149.18	149.49	149.81	150.13	150.45	150.77	151.09	151.41		
7/8	171.81	172.18	172.55	172.92	173.29	173.67	174.04	174.41	174.78	175.15	175.53	175.90	176.27	176.64		
1/2	196.35	196.78	197.20	197.63	198.05	198.48	198.90	199.33	199.75	200.18	200.60	201.03	201.45	201.88		
9/16	220.89	221.37	221.85	222.33	222.81	223.28	223.76	224.24	224.72	225.20	225.68	226.15	226.63	227.11		
5/8	245.44	245.97	246.50	247.03	247.56	248.09	248.63	249.16	249.69	250.22	250.75	251.28	251.81	252.34		
11/16	269.98	270.57	271.15	271.73	272.32	272.90	273.49	274.07	274.66	275.24	275.83	276.41	276.99	277.58		
3/4	294.53	295.16	295.80	296.44	297.08	297.71	298.35	298.99	299.63	300.26	300.90	301.54	302.18	302.81		
13/16	319.07	319.76	320.45	321.14	321.83	322.52	323.21	323.90	324.59	325.28	325.98	326.67	327.36	328.05		
7/8	343.61	344.36	345.10	345.84	346.59	347.33	348.08	348.82	349.56	350.31	351.05	351.79	352.54	353.28		
15/16	368.16	368.95	369.75	370.55	371.34	372.14	372.94	373.73	374.53	375.33	376.13	376.92	377.72	378.52		
1	392.70	393.55	394.40	395.25	396.10	396.95	397.80	398.65	399.50	400.35	401.20	402.05	402.90	403.75		
1 1/16	441.79	442.74	443.70	444.66	445.61	446.57	447.53	448.48	449.44	450.39	451.35	452.31	453.26	454.22		
1 1/4	490.88	491.94	493.00	494.06	495.13	496.19	497.25	498.31	499.38	500.44	501.50	502.56	503.63	504.69		
1 1/2	539.96	541.13	542.30	543.47	544.64	545.81	546.98	548.14	549.31	550.48	551.65	552.82	553.99	555.16		
1 5/8	589.05	590.33	591.60	592.88	594.15	595.43	596.70	597.98	599.25	600.53	601.80	603.08	604.35	605.63		
1 3/4	638.14	639.52	640.90	642.28	643.66	645.04	646.43	647.81	649.19	650.57	651.95	653.33	654.71	656.09		
1 7/8	687.23	688.71	690.20	691.69	693.18	694.66	696.15	697.64	699.13	700.61	702.10	703.59	705.08	706.56		
2	736.31	737.91	739.50	741.09	742.69	744.28	745.88	747.47	749.06	750.66	752.25	753.84	755.44	757.03		
2 1/8	785.40	787.10	788.80	790.50	792.20	793.90	795.60	797.30	799.00	800.70	802.40	804.10	805.80	807.50		
2 1/4	834.49	836.29	838.10	839.91	841.71	843.52	845.33	847.13	848.94	850.74	852.55	854.36	856.16	857.97		
2 1/2	883.58	885.49	887.40	889.31	891.23	893.14	895.05	896.96	898.88	900.79	902.70	904.61	906.53	908.44		

Weights of Flat Rolled Steel, Pounds Per Lineal Foot—Continued

WIDTH, INCHES

Thickness, Inches	119	119 1/4	119 1/2	119 3/4	120	120 1/4	120 1/2	120 3/4	121	121 1/4	121 1/2	121 3/4	122	122 1/4
1/4	88.51	88.69	88.88	89.06	89.25	89.44	89.62	89.81	89.99	90.18	90.37	90.55	90.74	90.92
3/4	101.15	101.36	101.58	101.79	102.00	102.21	102.43	102.64	102.85	103.06	103.28	103.49	103.70	103.91
5/16	126.44	126.70	126.97	127.23	127.50	127.77	128.03	128.30	128.56	128.83	129.09	129.36	129.63	129.89
3/8	151.73	152.04	152.36	152.68	153.00	153.32	153.64	153.96	154.28	154.59	154.91	155.23	155.55	155.87
7/16	177.01	177.38	177.76	178.13	178.50	178.87	179.24	179.62	179.99	180.36	180.73	181.10	181.48	181.85
1/2	202.30	202.73	203.15	203.58	204.00	204.43	204.85	205.28	205.70	206.13	206.55	206.98	207.40	207.83
9/16	227.59	228.07	228.54	229.02	229.50	229.98	230.46	230.93	231.41	231.89	232.37	232.85	233.33	233.80
5/8	252.88	253.41	253.94	254.47	255.00	255.53	256.06	256.59	257.13	257.66	258.19	258.72	259.25	259.78
11/16	278.16	278.75	279.33	279.92	280.50	281.08	281.67	282.25	282.84	283.42	284.01	284.59	285.18	285.76
3/4	303.45	304.09	304.73	305.36	306.00	306.64	307.28	307.91	308.55	309.19	309.83	310.46	311.10	311.74
13/16	328.74	329.43	330.12	330.81	331.50	332.19	332.88	333.57	334.26	334.95	335.64	336.33	337.03	337.72
7/8	354.03	354.77	355.51	356.26	357.00	357.74	358.49	359.23	359.98	360.72	361.46	362.21	362.95	363.69
1 1/8	379.21	380.11	380.91	381.70	382.50	383.30	384.09	384.89	385.68	386.48	387.28	388.08	388.88	389.67
1	404.60	405.45	406.30	407.15	408.00	408.85	409.70	410.55	411.40	412.25	413.10	413.95	414.80	415.65
1 1/16	455.18	456.13	457.09	458.04	459.00	459.96	460.91	461.87	462.83	463.78	464.74	465.69	466.65	467.61
1 1/4	505.75	506.81	507.88	508.94	510.00	511.06	512.13	513.19	514.25	515.31	516.38	517.44	518.50	519.56
1 3/8	556.33	557.49	558.66	559.83	561.00	562.17	563.34	564.51	565.68	566.84	568.01	569.18	570.35	571.52
1 1/2	606.90	608.18	609.45	610.73	612.00	613.28	614.55	615.83	617.10	618.38	619.65	620.93	622.20	623.48
1 5/8	657.48	658.86	660.24	661.62	663.00	664.38	665.76	667.14	668.53	669.91	671.29	672.67	674.05	675.43
1 3/4	708.05	709.54	711.03	712.51	714.00	715.49	716.98	718.46	719.95	721.44	722.93	724.41	725.90	727.39
1 7/8	758.63	760.22	761.81	763.41	765.00	766.59	768.18	769.77	771.36	772.94	774.53	776.12	777.71	779.30
2	809.20	810.90	812.60	814.30	816.00	817.70	819.40	821.10	822.80	824.50	826.20	827.90	829.60	831.30
2 1/8	859.78	861.58	863.39	865.19	867.00	868.81	870.61	872.42	874.23	876.03	877.84	879.64	881.45	883.26
2 1/4	910.35	912.26	914.18	916.09	918.00	919.91	921.83	923.74	925.65	927.56	929.48	931.39	933.30	935.21



# Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES															
	122 1/2	122 3/4	123	123 1/4	123 1/2	123 3/4	124	124 1/4	124 1/2	124 3/4	125	125 1/4	125 1/2	125 3/4		
7/16	91.11	91.30	91.48	91.67	91.85	92.04	92.23	92.41	92.60	92.78	92.97	93.15	93.34	93.53		
1/4	104.13	104.34	104.55	104.76	104.98	105.19	105.40	105.61	105.83	106.04	106.25	106.46	106.68	106.89		
5/16	130.16	130.42	130.69	130.95	131.22	131.48	131.75	132.02	132.28	132.55	132.81	133.08	133.34	133.61		
3/8	156.19	156.51	156.83	157.14	157.46	157.78	158.10	158.42	158.74	159.06	159.38	159.69	160.01	160.33		
1/2	182.22	182.59	182.96	183.33	183.71	184.08	184.45	184.82	185.19	185.57	185.94	186.31	186.68	187.05		
3/4	208.25	208.68	209.10	209.53	209.95	210.38	210.80	211.23	211.65	212.08	212.50	212.93	213.35	213.78		
9/16	234.28	234.76	235.24	235.72	236.19	236.67	237.15	237.63	238.11	238.58	239.06	239.54	240.02	240.50		
5/8	260.31	260.84	261.38	261.91	262.44	262.97	263.50	264.03	264.56	265.09	265.63	266.16	266.69	267.22		
11/16	286.34	286.93	287.51	288.10	288.68	289.27	289.85	290.43	291.02	291.60	292.19	292.77	293.36	293.94		
3/4	312.38	313.01	313.65	314.29	314.93	315.56	316.20	316.84	317.48	318.11	318.75	319.39	320.03	320.66		
13/16	338.41	339.10	339.79	340.48	341.17	341.86	342.55	343.24	343.93	344.62	345.31	346.00	346.69	347.38		
7/8	364.44	365.18	365.93	366.67	367.41	368.16	368.90	369.64	370.39	371.13	371.88	372.62	373.36	374.11		
1 1/16	390.47	391.27	392.06	392.86	393.66	394.45	395.25	396.05	396.84	397.64	398.44	399.23	400.03	400.83		
1 1/8	416.50	417.35	418.20	419.05	419.90	420.75	421.60	422.45	423.30	424.15	425.00	425.85	426.70	427.55		
1 1/4	468.56	469.52	470.48	471.43	472.39	473.34	474.30	475.26	476.21	477.17	478.13	479.08	480.04	480.99		
1 1/2	520.63	521.69	522.75	523.81	524.88	525.94	527.00	528.06	529.13	530.19	531.25	532.31	533.38	534.44		
1 3/8	572.69	573.86	575.03	576.19	577.36	578.53	579.70	580.87	582.04	583.21	584.38	585.54	586.71	587.88		
1 1/2	624.75	626.03	627.30	628.58	629.85	631.13	632.40	633.68	634.95	636.23	637.50	638.78	640.05	641.33		
1 3/4	676.81	678.19	679.58	680.96	682.34	683.72	685.10	686.48	687.86	689.24	690.63	692.01	693.39	694.77		
1 5/8	728.88	730.36	731.85	733.34	734.83	736.31	737.80	739.29	740.78	742.26	743.75	745.24	746.73	748.21		
1 3/4	780.94	782.53	784.13	785.72	787.31	788.91	790.50	792.09	793.69	795.28	796.88	798.47	800.06	801.66		
2	833.00	834.70	836.40	838.10	839.80	841.50	843.20	844.90	846.60	848.30	850.00	851.70	853.40	855.10		
2 1/8	885.06	886.87	888.68	890.48	892.29	894.09	895.90	897.71	899.51	901.32	903.13	904.93	906.74	908.54		
2 1/4	937.13	939.04	940.95	942.86	944.78	946.69	948.60	950.51	952.43	954.34	956.25	958.16	960.08	961.99		



Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Continued

Thickness, Inches	WIDTH, INCHES														
	126	126 1/4	126 1/2	126 3/4	127	127 1/4	127 1/2	127 3/4	128	128 1/4	128 1/2	128 3/4	129	129 1/4	
1/4	93.71	93.90	94.08	94.27	94.46	94.64	94.83	95.01	95.20	95.39	95.57	95.76	95.94	96.13	
1/4	107.10	107.31	107.53	107.74	107.95	108.16	108.38	108.59	108.80	109.01	109.23	109.44	109.65	109.86	
5/16	133.88	134.14	134.41	134.67	134.94	135.20	135.47	135.73	136.00	136.27	136.53	136.80	137.06	137.33	
3/8	160.65	160.97	161.29	161.61	161.93	162.24	162.56	162.88	163.20	163.52	163.84	164.16	164.48	164.79	
1/2	187.43	187.80	188.17	188.54	188.91	189.28	189.66	190.03	190.40	190.77	191.14	191.52	191.89	192.26	
1/2	214.20	214.63	215.05	215.48	215.90	216.33	216.75	217.18	217.60	218.03	218.45	218.88	219.30	219.73	
9/16	240.98	241.45	241.93	242.41	242.89	243.37	243.84	244.32	244.80	245.28	245.76	246.23	246.71	247.19	
5/8	267.75	268.28	268.81	269.34	269.88	270.41	270.94	271.47	272.00	272.53	273.06	273.59	274.13	274.66	
11/16	294.53	295.11	295.69	296.28	296.86	297.45	298.03	298.62	299.20	299.78	300.37	300.95	301.54	302.12	
3/4	321.30	321.94	322.58	323.21	323.85	324.49	325.13	325.76	326.40	327.04	327.68	328.31	328.95	329.59	
13/16	348.08	348.77	349.46	350.15	350.84	351.53	352.22	352.91	353.60	354.29	354.98	355.67	356.36	357.05	
1 1/16	374.85	375.59	376.34	377.08	377.83	378.57	379.31	380.06	380.80	381.54	382.29	383.03	383.78	384.52	
1 1/8	401.63	402.42	403.22	404.02	404.81	405.61	406.41	407.20	408.00	408.80	409.59	410.39	411.19	411.98	
1 1/4	428.40	429.25	430.10	430.95	431.80	432.65	433.50	434.35	435.20	436.05	436.90	437.75	438.60	439.45	
1 1/2	481.95	482.91	483.86	484.82	485.78	486.73	487.69	488.64	489.60	490.56	491.51	492.47	493.43	494.38	
1 5/8	535.50	536.56	537.63	538.69	539.75	540.81	541.88	542.94	544.00	545.06	546.13	547.19	548.25	549.31	
1 3/4	589.05	590.22	591.39	592.56	593.73	594.89	596.06	597.23	598.40	599.57	600.74	601.91	603.08	604.24	
1 7/8	642.60	643.88	645.15	646.43	647.70	648.98	650.25	651.53	652.80	654.08	655.35	656.63	657.90	659.18	
2	696.15	697.53	698.91	700.29	701.68	703.06	704.44	705.82	707.20	708.58	709.96	711.34	712.73	714.11	
2 1/8	749.70	751.19	752.68	754.16	755.65	757.14	758.63	760.11	761.60	763.09	764.58	766.06	767.55	769.04	
2 1/4	803.25	804.84	806.44	808.03	809.63	811.22	812.81	814.41	816.00	817.59	819.19	820.78	822.38	823.97	
2 1/2	856.80	858.50	860.20	861.90	863.60	865.30	867.00	868.70	870.40	872.10	873.80	875.50	877.20	878.90	
2 3/8	910.35	912.16	913.96	915.77	917.58	919.38	921.19	922.99	924.80	926.61	928.41	930.22	932.03	933.83	
2 1/4	963.90	965.81	967.73	969.64	971.55	973.46	975.38	977.29	979.20	981.11	983.03	984.94	986.85	988.76	

Weights of Flat Rolled Steel, Pounds Per Lineal Foot — Concluded

Thickness, Inches	WIDTH, INCHES															
	129 1/2	129 3/4	130	130 1/4	130 1/2	130 3/4	131	131 1/4	131 1/2	131 3/4	132	132 1/4	132 1/2	132 3/4		
1 1/4	96.32	96.50	96.69	96.87	97.06	97.2	97.4	97.6	97.8	98.0	98.2	98.4	98.5	98.7		
1 1/2	110.08	110.29	110.50	110.71	110.93	111.1	111.4	111.6	111.8	112.0	112.2	112.4	112.6	112.8		
5/16	137.59	137.86	138.13	138.39	138.66	138.9	139.2	139.5	139.7	140.0	140.3	140.5	140.8	141.1		
3/8	165.11	165.43	165.75	166.07	166.39	166.7	167.0	167.3	167.7	168.0	168.3	168.6	168.9	169.3		
7/16	192.63	193.00	193.38	193.75	194.12	194.5	194.9	195.2	195.6	196.0	196.4	196.7	197.1	197.5		
1 1/8	220.15	220.58	221.00	221.43	221.85	222.3	222.7	223.1	223.6	224.0	224.4	224.8	225.3	225.7		
9/16	247.67	248.15	248.63	249.10	249.58	250.1	250.5	251.0	251.5	252.0	252.5	252.9	253.4	253.9		
5/8	275.19	275.72	276.25	276.78	277.31	277.8	278.4	278.9	279.4	280.0	280.5	281.0	281.6	282.1		
1 1/16	302.71	303.29	303.88	304.46	305.04	305.6	306.2	306.8	307.4	308.0	308.6	309.1	309.7	310.3		
3/4	330.23	330.86	331.50	332.14	332.78	333.4	334.1	334.7	335.3	336.0	336.6	337.2	337.9	338.5		
13/16	357.74	358.43	359.13	359.82	360.51	361.2	361.9	362.6	363.3	364.0	364.7	365.3	366.0	366.7		
1 1/8	385.26	386.01	386.75	387.49	388.24	389.0	389.7	390.5	391.2	392.0	392.7	393.4	394.2	394.9		
1 5/8	412.78	413.58	414.38	415.17	415.97	416.8	417.6	418.4	419.2	420.0	420.8	421.6	422.3	423.1		
1 7/8	440.30	441.15	442.00	442.85	443.70	444.6	445.4	446.3	447.1	448.0	448.8	449.7	450.5	451.4		
1 1/2	467.82	468.72	469.62	470.52	471.42	472.32	473.22	474.12	475.02	475.92	476.82	477.72	478.62	479.52		
1 3/4	495.34	496.29	497.25	498.21	499.16	500.1	501.1	502.0	503.0	503.9	504.9	505.9	506.8	507.8		
1 1/4	550.38	551.44	552.50	553.56	554.63	555.7	556.8	557.8	558.9	559.9	561.0	562.1	563.1	564.2		
1 5/8	605.41	606.58	607.75	608.92	610.09	611.3	612.4	613.6	614.8	615.9	617.1	618.3	619.4	620.6		
1 7/8	660.45	661.73	663.00	664.28	665.55	666.8	668.1	669.4	670.7	671.9	673.2	674.5	675.8	677.0		
1 3/8	715.49	716.87	718.25	719.63	721.01	722.4	723.8	725.2	726.5	727.9	729.3	730.7	732.1	733.4		
1 1/2	770.53	772.01	773.50	774.99	776.48	778.0	779.5	780.9	782.4	783.9	785.4	786.9	788.4	789.9		
1 5/8	825.56	827.16	828.75	830.34	831.94	833.5	835.1	836.7	838.3	839.9	841.5	843.1	844.7	846.3		
2	880.60	882.30	884.00	885.70	887.40	889.1	890.8	892.5	894.2	895.9	897.6	899.3	901.0	902.7		
2 1/8	935.64	937.44	939.25	941.06	942.86	944.7	946.5	948.3	950.1	951.9	953.7	955.5	957.3	959.1		
2 1/4	990.68	992.59	994.50	996.41	998.33	1000.2	1002.2	1004.1	1006.0	1007.9	1009.8	1011.7	1013.6	1015.5		

# Weights of Circular Steel Plates

Diameter Inches	THICKNESS, INCHES										
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$
16	7	11	14	18	21	25	28	32	36	39	42
17	8	12	16	20	24	28	32	36	40	44	48
18	9	14	18	23	27	32	36	41	46	50	54
19	10	15	20	25	30	35	40	45	50	55	60
20	11	17	22	28	33	39	45	50	56	61	67
21	12	19	25	31	37	43	50	55	61	68	74
22	14	20	27	34	40	47	54	61	67	74	81
23	15	22	30	37	44	52	59	66	74	81	88
24	16	24	32	40	48	56	64	72	80	88	96
25	18	26	35	44	52	61	70	78	87	96	104
26	19	28	38	47	57	66	75	85	94	103	113
27	20	31	41	51	61	71	81	91	101	112	122
28	22	33	44	55	66	76	87	98	109	120	131
29	24	35	47	59	70	82	94	105	117	129	140
30	25	38	50	63	75	88	100	113	125	138	150
31	27	40	54	67	80	94	107	120	134	147	160
32	29	43	57	71	86	100	114	128	142	157	171
33	31	46	61	76	91	106	121	136	152	167	182
34	32	48	64	81	97	113	129	145	161	177	193
35	34	51	68	85	102	119	136	153	170	187	204
36	36	54	72	90	108	126	144	162	180	198	216
37	38	57	76	95	114	133	152	171	190	210	229
38	40	60	80	100	121	141	161	181	201	221	241
39	42	64	85	106	127	148	169	190	212	233	254
40	45	67	89	111	134	156	178	200	223	245	267



# Weights of Circular Steel Plates

## Continued

Diameter Inches	THICKNESS, INCHES										
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$
41	47	70	94	117	140	164	187	210	234	257	281
42	49	74	98	123	147	172	196	221	245	270	294
43	52	77	103	129	154	180	206	232	257	283	309
44	54	81	108	135	162	189	215	242	269	296	323
45	56	85	113	141	169	197	225	254	282	310	338
46	59	88	118	147	177	206	236	265	294	324	353
47	62	92	123	154	184	215	246	277	307	338	369
48	64	96	128	160	192	224	256	288	320	353	385
49	67	100	134	167	200	234	267	301	334	367	401
50	70	104	139	174	209	243	278	313	348	383	417
51	73	109	145	181	217	253	289	326	362	398	434
52	75	113	150	188	226	263	301	339	376	414	451
53	78	117	156	195	234	274	313	352	391	430	469
54	81	122	162	203	243	284	325	365	406	446	487
55	84	126	168	210	252	295	337	379	421	463	505
56	88	131	175	218	262	305	349	393	436	480	524
57	91	136	181	226	271	317	362	407	452	497	542
58	94	141	187	234	281	328	375	421	468	515	562
59	97	145	194	242	291	339	388	436	484	533	581
60	101	150	201	251	301	351	401	451	501	551	601
61	104	155	207	259	311	363	414	466	518	570	621
62	107	160	214	268	321	375	428	482	535	588	642
63	111	166	221	276	332	387	442	497	552	608	663
64	114	171	228	285	342	399	456	513	570	627	684
65	118	176	235	294	353	412	470	529	588	647	705



Weights of Circular Steel Plates  
Continued

Diameter Inches	THICKNESS, INCHES												
	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1
66	243	303	364	424	485	546	606	667	727	757	848	909	970
67	250	312	375	437	500	562	625	687	750	812	874	937	1000
68	258	322	386	450	515	579	643	708	772	836	900	965	1030
69	265	331	398	464	530	596	662	729	795	866	928	994	1060
70	273	341	409	477	546	614	682	750	818	886	954	1023	1092
71	281	351	421	491	561	631	702	772	842	912	982	1052	1122
72	289	361	433	505	577	649	721	794	866	938	1010	1082	1154
73	297	371	445	519	593	667	741	816	890	964	1038	1112	1186
74	305	381	457	533	610	686	762	838	914	990	1066	1143	1220
75	313	391	470	548	626	705	783	861	939	1018	1096	1172	1252
76	322	402	482	563	643	723	804	884	964	1045	1125	1205	1286
77	330	413	495	578	660	743	825	907	990	1072	1155	1237	1320
78	339	423	508	593	677	762	847	931	1016	1100	1185	1270	1354
79	348	434	521	608	695	782	868	955	1042	1129	1216	1302	1389
80	356	445	534	623	712	802	891	980	1069	1158	1247	1336	1425
81	365	457	548	639	730	822	913	1004	1095	1187	1278	1369	1460
82	374	468	561	655	748	842	936	1029	1123	1216	1310	1403	1497
83	384	479	575	671	767	863	960	1054	1150	1246	1342	1438	1533
84	393	491	589	687	785	884	982	1080	1178	1276	1374	1472	1571
85	402	503	603	704	804	905	1005	1106	1206	1307	1407	1509	1608
86	412	515	618	720	823	926	1029	1132	1235	1338	1441	1543	1646
87	421	527	632	737	843	948	1053	1158	1264	1369	1474	1580	1685
88	431	539	647	754	862	970	1077	1185	1293	1400	1508	1616	1724
89	441	551	662	772	882	992	1102	1212	1323	1433	1543	1653	1763
90	451	564	676	789	902	1014	1127	1240	1352	1465	1577	1690	1803

# Weights of Circular Steel Plates

## Concluded

Diameter Inches	THICKNESS, INCHES											
	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1
91	576	691	807	922	1037	1152	1267	1382	1498	1613	1728	1843
92	589	707	824	942	1060	1178	1295	1413	1531	1648	1766	1884
93	602	722	842	963	1083	1203	1324	1444	1564	1684	1805	1925
94	615	738	861	984	1106	1229	1352	1475	1598	1721	1844	1967
95	628	754	879	1005	1130	1256	1381	1507	1632	1758	1883	2009
96	641	769	897	1025	1154	1282	1410	1538	1666	1795	1923	2051
97	654	785	916	1047	1178	1309	1440	1570	1701	1832	1963	2094
98	668	801	935	1069	1202	1336	1469	1603	1737	1870	2004	2137
99	682	818	954	1091	1227	1363	1500	1636	1772	1908	2045	2181
100	695	835	974	1113	1252	1391	1530	1669	1808	1947	2086	2225
101	709	851	993	1135	1277	1419	1561	1703	1844	1986	2128	2270
102	724	868	1013	1158	1302	1447	1592	1736	1881	2026	2171	2315
103	738	885	1033	1180	1328	1476	1623	1771	1918	2066	2213	2361
104	752	903	1053	1203	1354	1504	1655	1805	1956	2106	2257	2407
105	767	920	1073	1227	1380	1533	1687	1840	1993	2147	2300	2453
106	781	938	1094	1250	1407	1563	1719	1875	2032	2188	2344	2500
107	796	955	1115	1274	1433	1592	1752	1911	2070	2229	2389	2548
108	811	973	1136	1298	1460	1622	1785	1947	2109	2271	2433	2596
109	826	992	1157	1322	1487	1652	1818	1983	2148	2313	2479	2644
110	841	1010	1178	1346	1515	1683	1851	2020	2188	2356	2524	2693
111	857	1028	1200	1371	1542	1714	1885	2056	2228	2400	2570	2742
112	872	1047	1221	1396	1570	1745	1919	2094	2268	2443	2617	2791
113	888	1065	1243	1420	1598	1776	1953	2131	2308	2486	2663	2841
114	904	1085	1266	1446	1627	1808	1989	2170	2350	2531	2712	2893
115	920	1104	1288	1471	1656	1839	2024	2208	2392	2575	2759	2943

# Weights and Areas of Square and Round Bars and Circumferences of Round Bars

Side or Diameter, Inches	Weight of $\square$ Bar per Foot	Weight of $\circ$ Bar per Foot	Area of $\square$ Bar Square Inches	Area of $\circ$ Bar Square Inches	Circumference of $\circ$ Bar Inches
$\frac{1}{16}$	.013	.010	.0039	.0031	.1964
$\frac{5}{64}$	.021	.016	.0061	.0048	.2454
$\frac{3}{32}$	.030	.023	.0088	.0069	.2945
$\frac{7}{64}$	.041	.032	.0120	.0094	.3436
$\frac{1}{8}$	.053	.042	.0156	.0123	.3927
$\frac{9}{64}$	.067	.053	.0198	.0155	.4418
$\frac{5}{32}$	.083	.065	.0244	.0192	.4908
$\frac{11}{64}$	.100	.079	.0295	.0232	.5400
$\frac{3}{16}$	.120	.094	.0352	.0276	.5891
$\frac{13}{64}$	.140	.110	.0413	.0324	.6381
$\frac{7}{32}$	.163	.128	.0479	.0376	.6872
$\frac{15}{64}$	.187	.147	.0549	.0431	.7363
$\frac{1}{4}$	.212	.167	.0625	.0491	.7854
$\frac{17}{64}$	.240	.188	.0706	.0554	.8345
$\frac{9}{32}$	.269	.211	.0791	.0621	.8836
$\frac{19}{64}$	.300	.235	.0881	.0692	.9327
$\frac{5}{16}$	.332	.261	.0977	.0767	.9818
$\frac{21}{64}$	.366	.288	.1077	.0846	1.0308
$\frac{11}{32}$	.402	.316	.1182	.0928	1.0799
$\frac{23}{64}$	.439	.345	.1292	.1014	1.1290
$\frac{3}{8}$	.478	.376	.1406	.1104	1.1781
$\frac{25}{64}$	.519	.407	.1526	.1198	1.2272
$\frac{13}{32}$	.561	.441	.1650	.1296	1.2763
$\frac{27}{64}$	.605	.475	.1780	.1398	1.3254
$\frac{7}{16}$	.651	.511	.1914	.1503	1.3745
$\frac{29}{64}$	.698	.548	.2053	.1613	1.4235
$\frac{15}{32}$	.747	.587	.2197	.1726	1.4726
$\frac{31}{64}$	.798	.627	.2346	.1843	1.5217
$\frac{1}{2}$	.850	.668	.2500	.1963	1.5708
$\frac{33}{64}$	.904	.710	.2659	.2088	1.6199
$\frac{17}{32}$	.960	.754	.2822	.2217	1.6690
$\frac{35}{64}$	1.017	.799	.2991	.2349	1.7181
$\frac{9}{16}$	1.076	.845	.3164	.2485	1.7671



## Square and Round Bars

Continued

Side or Diameter, Inches	Weight of $\square$ Bar per Foot	Weight of $\circ$ Bar per Foot	Area of $\square$ Bar Square Inches	Area of $\circ$ Bar Square Inches	Circumference of $\circ$ Bar Inches
$37\frac{64}{32}$	1.136	.893	.3342	.2625	1.8162
$19\frac{32}{32}$	1.199	.941	.3525	.2769	1.8653
$39\frac{64}{64}$	1.263	.992	.3713	.2916	1.9144
$5\frac{8}{8}$	1.328	1.043	.3906	.3068	1.9635
$41\frac{64}{64}$	1.395	1.096	.4104	.3223	2.0126
$21\frac{32}{32}$	1.464	1.150	.4307	.3382	2.0617
$43\frac{64}{64}$	1.535	1.205	.4514	.3545	2.1108
$11\frac{16}{16}$	1.607	1.262	.4727	.3712	2.1598
$45\frac{64}{64}$	1.681	1.320	.4944	.3883	2.2089
$23\frac{32}{32}$	1.756	1.379	.5166	.4057	2.2580
$47\frac{64}{64}$	1.834	1.440	.5393	.4236	2.3071
$3\frac{4}{4}$	1.913	1.502	.5625	.4418	2.3562
$49\frac{64}{64}$	1.993	1.565	.5862	.4604	2.4053
$25\frac{32}{32}$	2.075	1.630	.6103	.4794	2.4544
$51\frac{64}{64}$	2.159	1.696	.6350	.4987	2.5035
$13\frac{16}{16}$	2.245	1.763	.6602	.5185	2.5525
$53\frac{64}{64}$	2.332	1.831	.6858	.5386	2.6016
$27\frac{32}{32}$	2.420	1.901	.7119	.5591	2.6507
$55\frac{64}{64}$	2.511	1.972	.7385	.5800	2.6998
$7\frac{8}{8}$	2.603	2.044	.7656	.6013	2.7489
$57\frac{64}{64}$	2.697	2.118	.7932	.6230	2.7980
$29\frac{32}{32}$	2.792	2.193	.8213	.6450	2.8471
$59\frac{64}{64}$	2.889	2.270	.8498	.6675	2.8962
$15\frac{16}{16}$	2.988	2.347	.8789	.6903	2.9453
$61\frac{64}{64}$	3.089	2.426	.9084	.7135	2.9943
$31\frac{32}{32}$	3.191	2.506	.9385	.7371	3.0434
$63\frac{64}{64}$	3.294	2.587	.9689	.7610	3.0925
1	3.400	2.670	1.0000	.7854	3.1416



# Square and Round Bars

## Continued

Side or Diameter, Inches	Weight of $\square$ Bar per Foot	Weight of $\circ$ Bar per Foot	Area of $\square$ Bar Square Inches	Area of $\circ$ Bar Square Inches	Circumference of $\circ$ Bar Inches
$1\frac{1}{32}$	3.616	2.840	1.0635	.8353	3.2398
$1\frac{1}{16}$	3.838	3.014	1.1289	.8866	3.3379
$1\frac{3}{32}$	4.067	3.194	1.1963	.9396	3.4361
$1\frac{1}{8}$	4.303	3.379	1.2656	.9940	3.5343
$1\frac{5}{32}$	4.545	3.570	1.3369	1.0500	3.6325
$1\frac{3}{16}$	4.795	3.766	1.4102	1.1075	3.7306
$1\frac{7}{32}$	5.050	3.966	1.4853	1.1666	3.8288
$1\frac{1}{4}$	5.312	4.173	1.5625	1.2272	3.9270
$1\frac{9}{32}$	5.581	4.384	1.6416	1.2893	4.0252
$1\frac{5}{16}$	5.857	4.600	1.7227	1.3530	4.1233
$1\frac{11}{32}$	6.139	4.822	1.8056	1.4182	4.2215
$1\frac{3}{8}$	6.428	5.049	1.8906	1.4849	4.3197
$1\frac{13}{32}$	6.724	5.281	1.9775	1.5532	4.4179
$1\frac{7}{16}$	7.026	5.518	2.0664	1.6230	4.5160
$1\frac{15}{32}$	7.334	5.761	2.1572	1.6943	4.6142
$1\frac{1}{2}$	7.650	6.008	2.2500	1.7671	4.7124
$1\frac{17}{32}$	7.972	6.261	2.3447	1.8415	4.8106
$1\frac{9}{16}$	8.301	6.520	2.4414	1.9175	4.9087
$1\frac{19}{32}$	8.636	6.783	2.5400	1.9949	5.0069
$1\frac{5}{8}$	8.978	7.051	2.6406	2.0739	5.1051
$2\frac{1}{32}$	9.327	7.325	2.7481	2.1545	5.2033
$2\frac{1}{16}$	9.682	7.604	2.8477	2.2365	5.3014
$2\frac{3}{32}$	10.05	7.889	2.9541	2.3202	5.3996
$2\frac{1}{4}$	10.41	8.178	3.0625	2.4053	5.4978
$2\frac{5}{32}$	10.79	8.473	3.1728	2.4920	5.5960
$2\frac{3}{16}$	11.17	8.773	3.2852	2.5802	5.6941
$2\frac{7}{32}$	11.56	9.078	3.3994	2.6699	5.7923
$2\frac{1}{8}$	11.95	9.388	3.5156	2.7612	5.8905
$2\frac{9}{32}$	12.36	9.704	3.6337	2.8540	5.9887
$2\frac{11}{16}$	12.76	10.02	3.7539	2.9483	6.0868
$2\frac{11}{32}$	13.18	10.35	3.8760	3.0442	6.1850
2	13.60	10.68	4.0000	3.1416	6.2832

# Square and Round Bars

## Continued

Side or Diameter, Inches	Weight of $\square$ Bar per Foot	Weight of $\circ$ Bar per Foot	Area of $\square$ Bar Square Inches	Area of $\circ$ Bar Square Inches	Circumference of $\circ$ Bar Inches
$2\frac{1}{16}$	14.46	11.36	4.2539	3.3410	6.4795
$\frac{1}{8}$	15.35	12.06	4.5156	3.5466	6.6759
$\frac{3}{16}$	16.27	12.78	4.7852	3.7583	6.8722
$\frac{1}{4}$	17.22	13.52	5.0625	3.9761	7.0686
$\frac{5}{16}$	18.19	14.28	5.3477	4.2000	7.2649
$\frac{3}{8}$	19.18	15.07	5.6406	4.4301	7.4613
$\frac{7}{16}$	20.20	15.86	5.9414	4.6664	7.6576
$\frac{1}{2}$	21.25	16.69	6.2500	4.9087	7.8540
$\frac{9}{16}$	22.33	17.53	6.5664	5.1572	8.0503
$\frac{5}{8}$	23.43	18.40	6.8906	5.4119	8.2467
$\frac{11}{16}$	24.56	19.29	7.2227	5.6727	8.4430
$\frac{3}{4}$	25.71	20.20	7.5625	5.9396	8.6394
$\frac{13}{16}$	26.90	21.12	7.9102	6.2126	8.8357
$\frac{7}{8}$	28.10	22.07	8.2656	6.4918	9.0321
$\frac{15}{16}$	29.34	23.04	8.6289	6.7771	9.2284
3	30.60	24.03	9.0000	7.0686	9.4248
$\frac{1}{16}$	31.89	25.04	9.3789	7.3662	9.6211
$\frac{1}{8}$	33.20	26.08	9.7656	7.6699	9.8175
$\frac{3}{16}$	34.55	27.13	10.160	7.9798	10.014
$\frac{1}{4}$	35.92	28.20	10.563	8.2958	10.210
$\frac{5}{16}$	37.31	29.30	10.973	8.6179	10.407
$\frac{3}{8}$	38.73	30.42	11.391	8.9462	10.603
$\frac{7}{16}$	40.18	31.56	11.816	9.2806	10.799
$\frac{1}{2}$	41.65	32.71	12.250	9.6211	10.996
$\frac{9}{16}$	43.14	33.90	12.691	9.9678	11.192
$\frac{5}{8}$	44.68	35.09	13.141	10.321	11.388
$\frac{11}{16}$	46.24	36.31	13.598	10.680	11.585
$\frac{3}{4}$	47.82	37.56	14.063	11.045	11.781
$\frac{13}{16}$	49.42	38.81	14.535	11.416	11.977
$\frac{7}{8}$	51.05	40.10	15.016	11.793	12.174
$\frac{15}{16}$	52.71	41.40	15.504	12.177	12.370
4	54.40	42.73	16.000	12.566	12.566

# Square and Round Bars

## Continued

Side or Diameter, Inches	Weight of $\square$ Bar per Foot	Weight of $\circ$ Bar per Foot	Area of $\square$ Bar Square Inches	Area of $\circ$ Bar Square Inches	Circumference of $\circ$ Bar Inches
$4\frac{1}{16}$	56.11	44.07	16.504	12.962	12.763
$\frac{1}{8}$	57.85	45.44	17.016	13.364	12.959
$\frac{3}{16}$	59.62	46.83	17.535	13.772	13.155
$\frac{1}{4}$	61.41	48.24	18.063	14.186	13.352
$\frac{5}{16}$	63.23	49.66	18.598	14.607	13.548
$\frac{3}{8}$	65.08	51.11	19.141	15.033	13.744
$\frac{7}{16}$	66.95	52.58	19.691	15.466	13.941
$\frac{1}{2}$	68.85	54.07	20.250	15.904	14.137
$\frac{9}{16}$	70.78	55.59	20.816	16.349	14.334
$\frac{5}{8}$	72.73	57.12	21.391	16.800	14.530
$\frac{11}{16}$	74.70	58.67	21.973	17.257	14.726
$\frac{3}{4}$	76.71	60.25	22.563	17.721	14.923
$1\frac{1}{16}$	78.74	61.84	23.160	18.190	15.119
$\frac{7}{8}$	80.81	63.46	23.766	18.665	15.315
$1\frac{1}{8}$	82.89	65.10	24.379	19.147	15.512
5	85.00	66.76	25.000	19.635	15.708
$1\frac{1}{8}$	87.14	68.44	25.629	20.129	15.904
$\frac{1}{8}$	89.30	70.14	26.266	20.629	16.101
$\frac{3}{16}$	91.49	71.86	26.910	21.135	16.297
$\frac{1}{4}$	93.72	73.60	27.563	21.648	16.493
$\frac{5}{16}$	95.96	75.37	28.223	22.166	16.690
$\frac{3}{8}$	98.23	77.15	28.891	22.691	16.886
$\frac{7}{16}$	100.5	78.93	29.566	23.221	17.082
$\frac{1}{2}$	102.8	80.77	30.250	23.758	17.279
$\frac{9}{16}$	105.2	82.62	30.941	24.301	17.475
$\frac{5}{8}$	107.6	84.49	31.641	24.850	17.671
$\frac{11}{16}$	110.0	86.38	32.348	25.406	17.868
$\frac{3}{4}$	112.4	88.29	33.063	25.967	18.064
$1\frac{1}{8}$	114.9	90.22	33.785	26.535	18.261
$\frac{7}{8}$	117.4	92.17	34.516	27.109	18.457
$1\frac{1}{2}$	119.9	94.14	35.254	27.688	18.653
6	122.4	96.14	36.000	28.274	18.850



Square and Round Bars  
Concluded

Side or Diameter, Inches	Weight of $\square$ Bar per Foot	Weight of $\circ$ Bar per Foot	Area of $\square$ Bar Square Inches	Area of $\circ$ Bar Square Inches	Circumference of $\circ$ Bar Inches
$6\frac{1}{16}$	125.0	98.14	36.754	28.866	19.046
$\frac{1}{8}$	127.6	100.2	37.516	29.465	19.242
$\frac{3}{16}$	130.2	102.2	38.285	30.069	19.439
$\frac{1}{4}$	132.8	104.3	39.063	30.680	19.635
$\frac{5}{16}$	135.5	106.4	39.848	31.296	19.831
$\frac{3}{8}$	138.2	108.5	40.641	31.919	20.028
$\frac{7}{16}$	140.9	110.7	41.441	32.548	20.224
$\frac{1}{2}$	143.6	112.8	42.250	33.183	20.420
$\frac{9}{16}$	146.5	114.9	43.066	33.824	20.617
$\frac{5}{8}$	149.2	117.2	43.891	34.472	20.813
$\frac{11}{16}$	152.1	119.4	44.723	35.125	21.009
$\frac{3}{4}$	154.9	121.7	45.563	35.785	21.206
$\frac{13}{16}$	157.8	123.9	46.410	36.450	21.402
$\frac{7}{8}$	160.8	126.2	47.266	37.122	21.598
$\frac{15}{16}$	163.6	128.5	48.129	37.800	21.795
7	166.6	130.9	49.000	38.485	21.991
$\frac{1}{16}$	169.6	133.2	49.879	39.175	22.187
$\frac{1}{8}$	172.6	135.6	50.766	39.871	22.384
$\frac{3}{16}$	175.6	137.9	51.660	40.574	22.580
$\frac{1}{4}$	178.7	140.4	52.563	41.282	22.777
$\frac{5}{16}$	181.8	142.8	53.473	41.997	22.973
$\frac{3}{8}$	184.9	145.3	54.391	42.718	23.169
$\frac{7}{16}$	188.1	147.7	55.316	43.445	23.366
$\frac{1}{2}$	191.3	150.2	56.250	44.179	23.562
$\frac{9}{16}$	194.4	152.7	57.191	44.918	23.758
$\frac{5}{8}$	197.7	155.2	58.141	45.664	23.955
$\frac{11}{16}$	200.9	157.8	59.098	46.415	24.151
$\frac{3}{4}$	204.2	160.3	60.063	47.173	24.347
$\frac{13}{16}$	207.6	163.0	61.035	47.937	24.544
$\frac{7}{8}$	210.8	165.6	62.016	48.707	24.740
$\frac{15}{16}$	214.2	168.2	63.004	49.483	24.936
8	217.6	171.0	64.000	50.265	25.133



# JONES & LAUGHLIN STEEL COMPANY

## Areas, Circumferences and Weights per Foot of Round Bars with Diameters in Decimals

DIAMETER, INCHES		Area, Square Inches	Circumference Inches	Weight per Foot, Pounds
Decimal	Nominal Fraction			
.178	$\frac{3}{16}$ -	.0249	.5592	.085
.220	$\frac{7}{32}$ +	.0380	.6912	.129
.223	$\frac{7}{32}$ +	.0391	.7006	.133
.227	$\frac{15}{64}$ -	.0405	.7131	.138
.230	$\frac{15}{64}$ -	.0415	.7226	.141
.231	$\frac{15}{64}$ -	.0418	.7257	.142
.236	$\frac{15}{64}$ +	.0437	.7414	.149
.238	$\frac{15}{64}$ +	.0445	.7477	.152
.240	$\frac{1}{4}$ -	.0452	.7540	.154
.242	$\frac{1}{4}$ -	.0460	.7603	.157
.243	$\frac{1}{4}$ -	.0464	.7634	.158
.244	$\frac{1}{4}$ -	.0467	.7665	.159
.245	$\frac{1}{4}$ -	.0471	.7697	.160
.247	$\frac{1}{4}$ -	.0479	.7760	.163
.248	$\frac{1}{4}$ -	.0483	.7791	.164
.250	$\frac{1}{4}$ -	.0491	.7854	.167
.255	$\frac{1}{4}$ +	.0511	.8011	.174
.258	$\frac{1}{4}$ +	.0523	.8105	.178
.262	$\frac{17}{64}$ -	.0539	.8231	.183
.263	$\frac{17}{64}$ -	.0543	.8262	.185
.275	$\frac{9}{32}$ -	.0594	.8639	.202
.280	$\frac{9}{32}$ -	.0616	.8796	.209
.281	$\frac{9}{32}$ -	.0620	.8828	.211
.286	$\frac{9}{32}$ +	.0642	.8985	.218
.289	$\frac{19}{64}$ -	.0656	.9079	.223
.290	$\frac{19}{64}$ -	.0660	.9111	.224
.292	$\frac{19}{64}$ -	.0669	.9173	.227
.295	$\frac{19}{64}$ -	.0683	.9268	.232
.297	$\frac{19}{64}$ -	.0693	.9330	.236
.298	$\frac{19}{64}$ +	.0697	.9362	.238
.300	$\frac{19}{64}$ +	.0707	.9425	.240
.302	$\frac{19}{64}$ +	.0716	.9488	.243
.304	$\frac{19}{64}$ +	.0725	.9550	.246

Round Bars  
Diameters in Decimals—Continued

DIAMETER, INCHES		Area, Square Inches	Circumference Inches	Weight per Foot, Pounds
Decimal	Nominal Fraction			
.305	$\frac{5}{16}$ —	.0731	.9582	.248
.306	$\frac{5}{16}$ —	.0735	.9613	.250
.307	$\frac{5}{16}$ —	.0740	.9645	.252
.308	$\frac{5}{16}$ —	.0745	.9676	.253
.310	$\frac{5}{16}$ —	.0754	.9739	.256
.312	$\frac{5}{16}$ —	.0764	.9802	.260
.314	$\frac{5}{16}$ +	.0774	.9865	.263
.315	$\frac{5}{16}$ +	.0779	.9896	.265
.323	$\frac{21}{64}$ —	.0819	1.0147	.278
.324	$\frac{21}{64}$ —	.0824	1.0179	.280
.330	$\frac{21}{64}$ +	.0855	1.0367	.291
.335	$\frac{11}{32}$ —	.0881	1.0524	.299
.343	$\frac{11}{32}$ —	.0924	1.0776	.314
.344	$\frac{11}{32}$ —	.0929	1.0807	.316
.345	$\frac{11}{32}$ +	.0935	1.0838	.318
.355	$\frac{23}{64}$ —	.0990	1.1153	.337
.356	$\frac{23}{64}$ —	.0995	1.1184	.338
.360	$\frac{23}{64}$ —	.1018	1.1310	.346
.361	$\frac{23}{64}$ +	.1023	1.1341	.348
.362	$\frac{23}{64}$ +	.1029	1.1372	.350
.364	$\frac{23}{64}$ +	.1041	1.1435	.354
.365	$\frac{23}{64}$ +	.1046	1.1467	.356
.367	$\frac{23}{64}$ +	.1058	1.1530	.360
.368	$\frac{3}{8}$ —	.1064	1.1561	.362
.370	$\frac{3}{8}$ —	.1075	1.1624	.365
.372	$\frac{3}{8}$ —	.1087	1.1687	.369
.373	$\frac{3}{8}$ —	.1093	1.1718	.372
.374	$\frac{3}{8}$ —	.1098	1.1749	.373
.375	$\frac{3}{8}$ —	.1104	1.1781	.376
.390	$\frac{25}{64}$ —	.1194	1.2252	.406
.420	$\frac{27}{64}$ —	.1385	1.3195	.471
.424	$\frac{27}{64}$ +	.1412	1.3320	.480
.427	$\frac{27}{64}$ +	.1432	1.3415	.487

Round Bars  
Diameters in Decimals—Concluded

DIAMETER, INCHES		Area, Square Inches	Circumference Inches	Weight per Foot, Pounds
Decimal	Nominal Fraction			
.430	$\frac{7}{16}$ —	.1452	1.3509	.494
.431	$\frac{7}{16}$ —	.1459	1.3540	.496
.432	$\frac{7}{16}$ —	.1466	1.3572	.498
.436	$\frac{7}{16}$ —	.1493	1.3697	.508
.437	$\frac{7}{16}$ —	.1500	1.3739	.510
.442	$\frac{7}{16}$ +	.1534	1.3886	.522
.446	$\frac{29}{64}$ —	.1562	1.4012	.531
.470	$\frac{15}{32}$ +	.1735	1.4765	.590
.486	$\frac{31}{64}$ +	.1855	1.5268	.631
.487	$\frac{31}{64}$ +	.1863	1.5300	.633
.490	$\frac{31}{64}$ +	.1886	1.5394	.641
.493	$\frac{1}{2}$ —	.1909	1.5488	.649
.495	$\frac{1}{2}$ —	.1924	1.5551	.654
.497	$\frac{1}{2}$ —	.1940	1.5614	.660
.500	$\frac{1}{2}$	.1963	1.5708	.668
.550	$\frac{35}{64}$ +	.2376	1.7279	.808
.552	$\frac{35}{64}$ +	.2393	1.7342	.814
.556	$\frac{9}{16}$ —	.2428	1.7467	.825
.603	$\frac{39}{64}$ —	.2856	1.8944	.971
.610	$\frac{39}{64}$ —	.2922	1.9164	.994
.615	$\frac{39}{64}$ +	.2971	1.9321	1.010
.618	$\frac{5}{8}$ —	.3000	1.9415	1.020
.625	$\frac{5}{8}$ —	.3068	1.9635	1.043
.665	$\frac{43}{64}$ —	.3473	2.0892	1.181
.727	$\frac{47}{64}$ —	.4151	2.2839	1.411
.732	$\frac{47}{64}$ —	.4208	2.2997	1.431
.734	$\frac{47}{64}$ —	.4231	2.3059	1.439
.735	$\frac{47}{64}$ —	.4243	2.3091	1.443
.740	$\frac{47}{64}$ +	.4301	2.3248	1.462
.747	$\frac{3}{4}$ —	.4383	2.3468	1.490
.750	$\frac{3}{4}$	.4418	2.3562	1.502
.800	$\frac{51}{64}$ +	.5027	2.5133	1.709
.811	$\frac{13}{16}$ —	.5166	2.5478	1.756
.851	$\frac{27}{32}$ +	.5688	2.6735	1.934
.865	$\frac{55}{64}$ +	.5877	2.7175	1.998
.875	$\frac{7}{8}$	.6013	2.7489	2.044
.920	$\frac{59}{64}$ —	.6648	2.8903	2.260
.990	1—	.7698	3.1102	2.617

Approximate Weights of Round Edge Flats  
Per Lineal Foot

Width Overall, Inches	THICKNESS, INCHES						
	1/8	3/16	1/4	5/16	3/8	7/16	1/2
1/2	.206	.303	.398	.488	.....	.....	.....
9/16	.232	.343	.451	.555	.....	.....	.....
5/8	.259	.383	.504	.621	.....	.....	.....
11/16	.285	.423	.557	.688	.815	.....	.....
3/4	.312	.463	.610	.754	.895	.....	.....
13/16	.338	.503	.663	.821	.974	1.13	.....
7/8	.365	.542	.716	.887	1.06	1.22	.....
15/16	.392	.582	.769	.953	1.14	1.31	1.49
1	.418	.622	.823	1.02	1.22	1.41	1.59
1 1/16	.445	.662	.876	1.09	1.30	1.50	1.70
1 1/8	.....	.702	.929	1.15	1.38	1.59	1.81
1 3/16	.....	.742	.982	1.22	1.46	1.69	1.91
1 1/4	.....	.781	1.04	1.29	1.54	1.78	2.02
1 5/16	.....	.821	1.09	1.36	1.62	1.87	2.13
1 3/8	.....	.861	1.14	1.42	1.70	1.97	2.23
1 7/16	.....	.901	1.19	1.49	1.78	2.06	2.34
1 1/2	.....	.941	1.25	1.56	1.85	2.15	2.44
1 9/16	.....	.981	1.30	1.62	1.94	2.24	2.55
1 5/8	.....	1.02	1.35	1.69	2.01	2.34	2.66
1 11/16	.....	1.06	1.41	1.76	2.09	2.43	2.76
1 3/4	.....	1.10	1.46	1.82	2.17	2.52	2.87
1 13/16	.....	.....	1.51	1.89	2.25	2.62	2.98
1 7/8	.....	.....	1.57	1.95	2.33	2.71	3.08
1 15/16	.....	.....	1.62	2.02	2.41	2.80	3.19
2	.....	.....	1.67	2.09	2.49	2.89	3.29



Approximate Weights of Round Edge Flats—Continued  
Per Lineal Foot

Width Overall, Inches	THICKNESS, INCHES							
	$\frac{9}{16}$	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{3}{4}$	$1\frac{3}{16}$	$\frac{7}{8}$	$1\frac{5}{16}$	1
$\frac{1}{2}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{9}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{5}{8}$	.....	.....	.....	.....	.....	.....	.....	.....
$1\frac{1}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{3}{4}$	.....	.....	.....	.....	.....	.....	.....	.....
$1\frac{3}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{7}{8}$	.....	.....	.....	.....	.....	.....	.....	.....
$1\frac{5}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	.....	.....	.....	.....	.....
$1\frac{1}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$1\frac{1}{8}$	.....	.....	.....	.....	.....	.....	.....	.....
$1\frac{3}{16}$	2.14	2.36	2.57	2.79	.....	.....	.....	.....
$1\frac{1}{4}$	2.26	2.49	2.72	2.94	.....	.....	.....	.....
$1\frac{5}{16}$	2.38	2.62	2.81	3.10	.....	.....	.....	.....
$1\frac{3}{8}$	2.49	2.75	3.01	3.26	.....	.....	.....	.....
$1\frac{7}{16}$	2.61	2.89	3.16	3.42	.....	.....	.....	.....
$1\frac{1}{2}$	2.73	3.02	3.30	3.58	.....	.....	.....	.....
$1\frac{9}{16}$	2.85	3.15	3.45	3.74	.....	.....	.....	.....
$1\frac{5}{8}$	2.97	3.29	3.60	3.90	.....	.....	.....	.....
$1\frac{11}{16}$	3.09	3.42	3.74	4.06	.....	.....	.....	.....
$1\frac{3}{4}$	3.21	3.55	3.89	4.22	4.55	4.87	5.20	5.52
$1\frac{13}{16}$	3.33	3.68	4.03	4.38	4.72	5.06	5.40	5.73
$1\frac{7}{8}$	3.45	3.82	4.18	4.54	4.89	5.25	5.60	5.94
$1\frac{15}{16}$	3.57	3.95	4.33	4.70	5.07	5.43	5.79	6.15
2	3.69	4.08	4.47	4.86	5.24	5.62	5.99	6.37

Approximate Weights of Round Edge Flats—Continued  
Per Lineal Foot

Width Overall, Inches	THICKNESS, INCHES						
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
$2\frac{1}{16}$	.....	.....	1.73	2.15	2.57	2.99	3.40
$2\frac{1}{8}$	.....	.....	1.78	2.22	2.65	3.08	3.51
$2\frac{3}{16}$	.....	.....	1.83	2.29	2.73	3.17	3.61
$2\frac{1}{4}$	.....	.....	1.89	2.35	2.81	3.27	3.72
$2\frac{5}{16}$	.....	.....	1.94	2.42	2.89	3.36	3.83
$2\frac{3}{8}$	.....	.....	1.99	2.49	2.97	3.45	3.93
$2\frac{7}{16}$	.....	.....	2.04	2.55	3.05	3.55	4.04
$2\frac{1}{2}$	.....	.....	2.10	2.62	3.13	3.64	4.14
$2\frac{5}{8}$	.....	.....	2.20	2.75	3.29	3.82	4.36
$2\frac{3}{4}$	.....	.....	2.31	2.88	3.45	4.01	4.57
$2\frac{7}{8}$	.....	.....	2.42	3.02	3.61	4.20	4.78
3	.....	.....	2.52	3.15	3.77	4.38	4.99
$3\frac{1}{8}$	.....	.....	2.63	3.28	3.93	4.57	5.21
$3\frac{1}{4}$	.....	.....	2.74	3.42	4.09	4.75	5.42
$3\frac{3}{8}$	.....	.....	2.84	3.55	4.25	4.94	5.63
$3\frac{1}{2}$	.....	.....	2.95	3.68	4.40	5.13	5.84
$3\frac{5}{8}$	.....	.....	.....	.....	4.56	5.31	6.06
$3\frac{3}{4}$	.....	.....	.....	.....	4.72	5.50	6.27
$3\frac{7}{8}$	.....	.....	.....	.....	4.88	5.68	6.48
4	.....	.....	.....	.....	5.04	5.87	6.69
$4\frac{1}{8}$	.....	.....	.....	.....	.....	.....	6.91
$4\frac{1}{4}$	.....	.....	.....	.....	.....	.....	7.12
$4\frac{3}{8}$	.....	.....	.....	.....	.....	.....	7.33
$4\frac{1}{2}$	.....	.....	.....	.....	.....	.....	7.54
$4\frac{5}{8}$	.....	.....	.....	.....	.....	.....	7.76
$4\frac{3}{4}$	.....	.....	.....	.....	.....	.....	7.97

Approximate Weights of Round Edge Flats—Concluded  
Per Lineal Foot

Width Overall, Inches	THICKNESS, INCHES							
	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1
$2\frac{1}{16}$	3.81	4.22	4.62	5.02	5.41	5.80	6.19	6.58
$2\frac{1}{8}$	3.93	4.35	4.76	5.18	5.58	5.99	6.39	6.79
$2\frac{3}{16}$	4.05	4.48	4.91	5.34	5.76	6.18	6.59	7.00
$2\frac{1}{4}$	4.17	4.61	5.06	5.49	5.93	6.36	6.79	7.22
$2\frac{5}{16}$	4.29	4.75	5.20	5.65	6.10	6.55	6.99	7.43
$2\frac{3}{8}$	4.41	4.88	5.35	5.81	6.28	6.73	7.19	7.64
$2\frac{7}{16}$	4.53	5.01	5.49	5.97	6.45	6.92	7.39	7.85
$2\frac{1}{2}$	4.65	5.15	5.64	6.13	6.62	7.10	7.59	8.07
$2\frac{5}{8}$	4.89	5.41	5.93	6.45	6.97	7.48	7.99	8.49
$2\frac{3}{4}$	5.12	5.68	6.22	6.77	7.31	7.85	8.39	8.92
$2\frac{7}{8}$	5.36	5.94	6.52	7.09	7.66	8.22	8.78	9.34
3	5.60	6.21	6.81	7.41	8.00	8.59	9.18	9.77
$3\frac{1}{8}$	5.84	6.47	7.10	7.73	8.35	8.96	9.58	10.19
$3\frac{1}{4}$	6.08	6.74	7.39	8.04	8.69	9.34	9.98	10.62
$3\frac{3}{8}$	6.32	7.00	7.69	8.36	9.04	9.71	10.38	11.04
$3\frac{1}{2}$	6.56	7.27	7.98	8.68	9.38	10.08	10.77	11.47
$3\frac{5}{8}$	6.80	7.54	8.27	9.00	9.73	10.45	11.17	11.89
$3\frac{3}{4}$	7.04	7.80	8.56	9.32	10.07	10.82	11.57	12.32
$3\frac{7}{8}$	7.28	8.07	8.85	9.64	10.42	11.20	11.97	12.74
4	7.51	8.33	9.15	9.96	10.76	11.57	12.37	13.17
$4\frac{1}{8}$	7.75	8.60	9.44	10.27	11.11	11.94	12.76	13.59
$4\frac{1}{4}$	7.99	8.86	9.73	10.59	11.45	12.31	13.16	14.02
$4\frac{3}{8}$	8.23	9.13	10.02	10.91	11.80	12.68	13.56	14.44
$4\frac{1}{2}$	8.47	9.39	10.31	11.23	12.14	13.05	13.96	14.87
$4\frac{5}{8}$	8.71	9.66	10.61	11.55	12.49	13.43	14.36	15.29
$4\frac{3}{4}$	8.95	9.93	10.90	11.87	12.84	13.81	14.77	15.73

### Approximate Weights of Round Edge Tires Per Lineal Foot

Face Measure, Inches	THICKNESS, INCHES						
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
$\frac{1}{2}$	.228	.353	.486	.626	.....	.....	.....
$\frac{9}{16}$	.254	.393	.539	.692	.....	.....	.....
$\frac{5}{8}$	.281	.433	.592	.759	.....	.....	.....
$\frac{11}{16}$	.307	.472	.645	.825	1.01	.....	.....
$\frac{3}{4}$	.334	.512	.698	.892	1.09	.....	.....
$\frac{13}{16}$	.360	.552	.751	.958	1.18	1.40	.....
$\frac{7}{8}$	.387	.592	.804	1.03	1.26	1.49	.....
$\frac{15}{16}$	.413	.632	.858	1.10	1.34	1.58	1.84
1	.440	.672	.911	1.16	1.42	1.68	1.95
$\frac{11}{16}$	.467	.711	.964	1.23	1.50	1.77	2.05
$\frac{11}{8}$	.....	.751	1.02	1.29	1.58	1.86	2.16
$\frac{13}{16}$	.....	.791	1.07	1.36	1.65	1.96	2.27
$\frac{11}{4}$	.....	.831	1.13	1.43	1.73	2.05	2.37
$\frac{15}{16}$	.....	.871	1.18	1.49	1.81	2.14	2.48
$\frac{13}{8}$	.....	.911	1.23	1.56	1.89	2.24	2.58
$\frac{17}{16}$	.....	.950	1.29	1.63	1.97	2.33	2.69
$1\frac{1}{2}$	.....	.990	1.34	1.69	2.05	2.42	2.79
$\frac{19}{16}$	.....	1.03	1.39	1.76	2.13	2.51	2.90
$\frac{15}{8}$	.....	1.07	1.45	1.83	2.21	2.61	3.01
$\frac{111}{16}$	.....	1.11	1.50	1.89	2.29	2.70	3.11
$1\frac{3}{4}$	.....	1.15	1.55	1.96	2.37	2.79	3.22
$\frac{113}{16}$	.....	.....	1.61	2.02	2.45	2.89	3.33
$1\frac{7}{8}$	.....	.....	1.66	2.09	2.53	2.98	3.43
$\frac{115}{16}$	.....	.....	1.71	2.16	2.61	3.07	3.54
2	.....	.....	1.77	2.22	2.69	3.16	3.65



# JONES & LAUGHLIN STEEL COMPANY

## Approximate Weights of Round Edge Tires—Continued Per Lineal Foot

Face Measure, Inches	THICKNESS, INCHES							
	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1
$\frac{1}{2}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{9}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{5}{8}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{11}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{3}{4}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{13}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{7}{8}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{15}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{11}{16}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{1}{8}$	.....	.....	.....	.....	.....	.....	.....	.....
$\frac{13}{16}$	2.58	2.91	3.24	3.58	.....	.....	.....	.....
$\frac{1}{4}$	2.70	3.04	3.39	3.74	.....	.....	.....	.....
$\frac{15}{16}$	2.82	3.17	3.53	3.90	.....	.....	.....	.....
$\frac{13}{8}$	2.94	3.30	3.68	4.06	.....	.....	.....	.....
$\frac{17}{16}$	3.06	3.44	3.82	4.22	.....	.....	.....	.....
$1\frac{1}{2}$	3.18	3.57	3.97	4.38	.....	.....	.....	.....
$\frac{19}{16}$	3.30	3.70	4.12	4.53	.....	.....	.....	.....
$1\frac{5}{8}$	3.42	3.84	4.26	4.69	.....	.....	.....	.....
$1\frac{11}{16}$	3.54	3.97	4.41	4.85	.....	.....	.....	.....
$1\frac{3}{4}$	3.66	4.10	4.55	5.01	5.48	5.95	6.43	6.92
$1\frac{13}{16}$	3.78	4.23	4.70	5.17	5.65	6.14	6.63	7.14
$1\frac{7}{8}$	3.88	4.37	4.85	5.33	5.82	6.32	6.83	7.35
$1\frac{15}{16}$	4.02	4.50	4.99	5.49	6.00	6.51	7.03	7.56
2	4.14	4.63	5.14	5.65	6.17	6.70	7.23	7.77

# JONES & LAUGHLIN STEEL COMPANY

## Approximate Weights of Round Edge Tires—Continued Per Lineal Foot

Face Measure, Inches	THICKNESS, INCHES						
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
$2\frac{1}{16}$	.....	.....	1.82	2.29	2.77	3.25	3.75
$2\frac{1}{8}$	.....	.....	1.87	2.36	2.85	3.35	3.86
$2\frac{3}{16}$	.....	.....	1.92	2.42	2.93	3.44	3.96
$2\frac{1}{4}$	.....	.....	1.98	2.49	3.00	3.54	4.07
$2\frac{5}{16}$	.....	.....	2.03	2.56	3.09	3.63	4.18
$2\frac{3}{8}$	.....	.....	2.08	2.62	3.17	3.72	4.28
$2\frac{7}{16}$	.....	.....	2.14	2.69	3.25	3.82	4.39
$2\frac{1}{2}$	.....	.....	2.19	2.76	3.35	3.91	4.49
$2\frac{5}{8}$	.....	.....	2.30	2.89	3.49	4.09	4.71
$2\frac{3}{4}$	.....	.....	2.40	3.02	3.65	4.28	4.92
$2\frac{7}{8}$	.....	.....	2.51	3.15	3.81	4.47	5.13
3	.....	.....	2.61	3.29	3.97	4.65	5.35
$3\frac{1}{8}$	.....	.....	2.72	3.42	4.12	4.84	5.56
$3\frac{1}{4}$	.....	.....	2.83	3.55	4.28	5.02	5.77
$3\frac{3}{8}$	.....	.....	2.93	3.68	4.44	5.21	5.98
$3\frac{1}{2}$	.....	.....	3.04	3.82	4.60	5.40	6.20
$3\frac{5}{8}$	.....	.....	3.15	3.95	4.76	5.58	6.41
$3\frac{3}{4}$	.....	.....	3.25	4.08	4.92	5.77	6.62
$3\frac{7}{8}$	.....	.....	3.36	4.22	5.08	5.95	6.83
4	.....	.....	3.47	4.35	5.24	6.14	7.05
$4\frac{1}{8}$	.....	.....	.....	.....	.....	.....	7.26
$4\frac{1}{4}$	.....	.....	.....	.....	.....	.....	7.47
$4\frac{3}{8}$	.....	.....	.....	.....	.....	.....	7.68
$4\frac{1}{2}$	.....	.....	.....	.....	.....	.....	7.90

# JONES & LAUGHLIN STEEL COMPANY

## Approximate Weights of Round Edge Tires—Concluded Per Lineal Foot

Face Measure, Inches	THICKNESS, INCHES							
	$\frac{9}{16}$	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{3}{4}$	$1\frac{1}{16}$	$\frac{7}{8}$	$1\frac{5}{16}$	1
$2\frac{1}{16}$	4.26	4.77	5.28	5.81	6.34	6.88	7.43	7.99
$2\frac{1}{8}$	4.38	4.90	5.43	5.97	6.51	7.06	7.63	8.20
$2\frac{3}{16}$	4.41	5.03	5.58	6.13	6.69	7.25	7.83	8.41
$2\frac{1}{4}$	4.61	5.16	5.72	6.29	6.86	7.44	8.03	8.62
$2\frac{5}{16}$	4.73	5.30	5.87	6.45	7.03	7.63	8.23	8.84
$2\frac{3}{8}$	4.85	5.43	6.01	6.61	7.21	7.81	8.43	9.05
$2\frac{7}{16}$	4.97	5.56	6.16	6.77	7.38	8.00	8.63	9.26
$2\frac{1}{2}$	5.09	5.70	6.31	6.93	7.55	8.18	8.83	9.47
$2\frac{5}{8}$	5.33	5.97	6.60	7.24	7.90	8.56	9.22	9.90
$2\frac{3}{4}$	5.56	6.24	6.89	7.56	8.24	8.93	9.62	10.32
$2\frac{7}{8}$	5.81	6.50	7.18	7.88	8.59	9.30	10.02	10.75
3	6.05	6.77	7.47	8.20	8.93	9.67	10.42	11.17
$3\frac{1}{8}$	6.29	7.03	7.77	8.52	9.28	10.04	10.82	11.60
$3\frac{1}{4}$	6.53	7.30	8.06	8.84	9.62	10.42	11.22	12.02
$3\frac{3}{8}$	6.77	7.56	8.35	9.16	9.97	10.79	11.62	12.45
$3\frac{1}{2}$	7.00	7.83	8.64	9.48	10.31	11.16	12.01	12.87
$3\frac{5}{8}$	7.24	8.10	8.94	9.79	10.66	11.53	12.41	13.30
$3\frac{3}{4}$	7.48	8.36	9.23	10.11	11.00	11.90	12.81	13.72
$3\frac{7}{8}$	7.72	8.63	9.52	10.43	11.35	12.28	13.21	14.15
4	7.96	8.89	9.81	10.75	11.69	12.65	13.61	14.57
$4\frac{1}{8}$	8.20	9.16	10.11	11.07	12.04	13.02	14.00	15.00
$4\frac{1}{4}$	8.44	9.42	10.40	11.39	12.38	13.39	14.40	15.42
$4\frac{3}{8}$	8.68	9.69	10.70	11.71	12.73	13.76	14.80	15.85
$4\frac{1}{2}$	8.92	9.95	10.99	12.03	13.07	14.13	15.20	16.27



# JONES & LAUGHLIN STEEL COMPANY

## Decimals of a Foot for Each 1/64th Inch

Inch	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
0	.0	.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167
$\frac{1}{64}$	.0013	.0846	.1680	.2513	.3346	.4180	.5013	.5846	.6680	.7513	.8346	.9180
$\frac{1}{32}$	.0026	.0859	.1693	.2526	.3359	.4193	.5026	.5859	.6693	.7526	.8359	.9193
$\frac{3}{64}$	.0039	.0872	.1706	.2539	.3372	.4206	.5039	.5872	.6706	.7539	.8372	.9206
$\frac{1}{16}$	.0052	.0885	.1719	.2552	.3385	.4219	.5052	.5885	.6719	.7552	.8385	.9219
$\frac{5}{64}$	.0065	.0898	.1732	.2565	.3398	.4232	.5065	.5898	.6732	.7565	.8398	.9232
$\frac{3}{32}$	.0078	.0911	.1745	.2578	.3411	.4245	.5078	.5911	.6745	.7578	.8411	.9245
$\frac{7}{64}$	.0091	.0924	.1758	.2591	.3424	.4258	.5091	.5924	.6758	.7591	.8424	.9258
$\frac{1}{8}$	.0104	.0937	.1771	.2604	.3437	.4271	.5104	.5937	.6771	.7604	.8437	.9271
$\frac{9}{64}$	.0117	.0951	.1784	.2617	.3451	.4284	.5117	.5951	.6784	.7617	.8451	.9284
$\frac{5}{32}$	.0130	.0964	.1797	.2630	.3464	.4297	.5130	.5964	.6797	.7630	.8464	.9297
$\frac{11}{64}$	.0143	.0977	.1810	.2643	.3477	.4310	.5143	.5977	.6810	.7643	.8477	.9310
$\frac{3}{16}$	.0156	.0990	.1823	.2656	.3490	.4323	.5156	.5990	.6823	.7656	.8490	.9323
$\frac{13}{64}$	.0169	.1003	.1836	.2669	.3503	.4336	.5169	.6003	.6836	.7669	.8503	.9336
$\frac{7}{32}$	.0182	.1016	.1849	.2682	.3516	.4349	.5182	.6016	.6849	.7682	.8516	.9349
$\frac{15}{64}$	.0195	.1029	.1862	.2695	.3529	.4362	.5195	.6029	.6862	.7695	.8529	.9362
$\frac{1}{4}$	.0208	.1042	.1875	.2708	.3542	.4375	.5208	.6042	.6875	.7708	.8542	.9375
$\frac{17}{64}$	.0221	.1055	.1888	.2721	.3555	.4388	.5221	.6055	.6888	.7721	.8555	.9388
$\frac{9}{32}$	.0234	.1068	.1901	.2734	.3568	.4401	.5234	.6068	.6901	.7734	.8568	.9401
$\frac{19}{64}$	.0247	.1081	.1914	.2747	.3581	.4414	.5247	.6081	.6914	.7747	.8581	.9414
$\frac{5}{16}$	.0260	.1094	.1927	.2760	.3594	.4427	.5260	.6094	.6927	.7760	.8594	.9427
$\frac{21}{64}$	.0273	.1107	.1940	.2773	.3607	.4440	.5273	.6107	.6940	.7773	.8607	.9440
$\frac{11}{32}$	.0286	.1120	.1953	.2786	.3620	.4453	.5286	.6120	.6953	.7786	.8620	.9453
$\frac{23}{64}$	.0299	.1133	.1966	.2799	.3633	.4466	.5299	.6133	.6966	.7799	.8633	.9466
$\frac{3}{8}$	.0312	.1146	.1979	.2812	.3646	.4479	.5312	.6146	.6979	.7812	.8646	.9479
$\frac{25}{64}$	.0326	.1159	.1992	.2826	.3659	.4492	.5326	.6159	.6992	.7826	.8659	.9492
$\frac{13}{32}$	.0339	.1172	.2005	.2839	.3672	.4505	.5339	.6172	.7005	.7839	.8672	.9505
$\frac{27}{64}$	.0352	.1185	.2018	.2852	.3685	.4518	.5352	.6185	.7018	.7852	.8685	.9518
$\frac{7}{16}$	.0365	.1198	.2031	.2865	.3698	.4531	.5365	.6198	.7031	.7865	.8698	.9531
$\frac{29}{64}$	.0378	.1211	.2044	.2878	.3711	.4544	.5378	.6211	.7044	.7878	.8711	.9544
$\frac{15}{32}$	.0391	.1224	.2057	.2891	.3724	.4557	.5391	.6224	.7057	.7891	.8724	.9557
$\frac{31}{64}$	.0404	.1237	.2070	.2904	.3737	.4570	.5404	.6237	.7070	.7904	.8737	.9570
$\frac{1}{2}$	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583



# JONES & LAUGHLIN STEEL COMPANY

## Decimals of a Foot for Each 1/64th Inch Concluded

Inch	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
1/2	.0417	.1250	.2083	.2917	.3750	.4583	.5417	.6250	.7083	.7917	.8750	.9583
33/64	.0430	.1263	.2096	.2930	.3763	.4596	.5430	.6263	.7096	.7930	.8763	.9596
17/32	.0443	.1276	.2109	.2943	.3776	.4609	.5443	.6276	.7109	.7943	.8776	.9609
35/64	.0456	.1289	.2122	.2956	.3789	.4622	.5456	.6289	.7122	.7956	.8789	.9622
9/16	.0469	.1302	.2135	.2969	.3802	.4635	.5469	.6302	.7135	.7969	.8802	.9635
37/64	.0482	.1315	.2148	.2982	.3815	.4648	.5482	.6315	.7148	.7982	.8815	.9648
19/32	.0495	.1328	.2161	.2995	.3828	.4661	.5495	.6328	.7161	.7995	.8828	.9661
39/64	.0508	.1341	.2174	.3008	.3841	.4674	.5508	.6341	.7174	.8008	.8841	.9674
5/8	.0521	.1354	.2188	.3021	.3854	.4688	.5521	.6354	.7188	.8021	.8854	.9688
41/64	.0534	.1367	.2201	.3034	.3867	.4701	.5534	.6367	.7201	.8034	.8867	.9701
21/32	.0547	.1380	.2214	.3047	.3880	.4714	.5547	.6380	.7214	.8047	.8880	.9714
43/64	.0560	.1393	.2227	.3060	.3893	.4727	.5560	.6393	.7227	.8060	.8893	.9727
11/16	.0573	.1406	.2240	.3073	.3906	.4740	.5573	.6406	.7240	.8073	.8906	.9740
45/64	.0586	.1419	.2253	.3086	.3919	.4753	.5586	.6419	.7253	.8086	.8919	.9753
23/32	.0599	.1432	.2266	.3099	.3932	.4766	.5599	.6432	.7266	.8099	.8932	.9766
47/64	.0612	.1445	.2279	.3112	.3945	.4779	.5612	.6445	.7279	.8112	.8945	.9779
3/4	.0625	.1458	.2292	.3125	.3958	.4792	.5625	.6458	.7292	.8125	.8958	.9792
49/64	.0638	.1471	.2305	.3138	.3971	.4805	.5638	.6471	.7305	.8138	.8971	.9805
25/32	.0651	.1484	.2318	.3151	.3984	.4818	.5651	.6484	.7318	.8151	.8984	.9818
51/64	.0664	.1497	.2331	.3164	.3997	.4831	.5664	.6497	.7331	.8164	.8997	.9831
13/16	.0677	.1510	.2344	.3177	.4010	.4844	.5677	.6510	.7344	.8177	.9010	.9844
53/64	.0690	.1523	.2357	.3190	.4023	.4857	.5690	.6523	.7357	.8190	.9023	.9857
27/32	.0703	.1536	.2370	.3203	.4036	.4870	.5703	.6536	.7370	.8203	.9036	.9870
55/64	.0716	.1549	.2383	.3216	.4049	.4883	.5716	.6549	.7383	.8216	.9049	.9883
7/8	.0729	.1562	.2396	.3229	.4062	.4896	.5729	.6562	.7396	.8229	.9062	.9896
57/64	.0742	.1576	.2409	.3242	.4076	.4909	.5742	.6576	.7409	.8242	.9076	.9909
29/32	.0755	.1589	.2422	.3255	.4089	.4922	.5755	.6589	.7422	.8255	.9089	.9922
59/64	.0768	.1602	.2435	.3268	.4102	.4935	.5768	.6602	.7435	.8268	.9102	.9935
15/16	.0781	.1615	.2448	.3281	.4115	.4948	.5781	.6615	.7448	.8281	.9115	.9948
61/64	.0794	.1628	.2461	.3294	.4128	.4961	.5794	.6628	.7461	.8294	.9128	.9961
31/32	.0807	.1641	.2474	.3307	.4141	.4974	.5807	.6641	.7474	.8307	.9141	.9974
63/64	.0820	.1654	.2487	.3320	.4154	.4987	.5820	.6654	.7487	.8320	.9154	.9987
1												1.0000

Decimals of an Inch for Each 1/64th Inch

$\frac{1}{32}$ nds	$\frac{1}{64}$ ths	Decimal	Frac- tion	$\frac{1}{32}$ nds	$\frac{1}{64}$ ths	Decimal	Frac- tion
1	1	.015625	1/16	17	33	.515625	9/16
	2	.03125			34	.53125	
	3	.046875			35	.546875	
2	4	.0625	1/8	18	36	.5625	5/8
	5	.078125			37	.578125	
3	6	.09375		19	38	.59375	
	7	.109375	39		.609375		
4	8	.125	20	40	.625	3/4	
	9	.140625		41	.640625		
5	10	.15625	21	42	.65625		7/8
	11	.171875		43	.671875		
6	12	.1875	22	44	.6875	13/16	
	13	.203125		45	.703125		
7	14	.21875	23	46	.71875		3/2
	15	.234375		47	.734375		
8	16	.250	24	48	.750	7/4	
	17	.265625		49	.765625		
9	18	.28125	25	50	.78125		13/8
	19	.296875		51	.796875		
10	20	.3125	26	52	.8125	13/16	
	21	.328125		53	.828125		
11	22	.34375	27	54	.84375		7/8
	23	.359375		55	.859375		
12	24	.375	28	56	.875	13/8	
	25	.390625		57	.890625		
13	26	.40625	29	58	.90625		15/16
	27	.421875		59	.921875		
14	28	.4375	30	60	.9375	1	
	29	.453125		61	.953125		
15	30	.46875	31	62	.96875		1
	31	.484375		63	.984375		
16	32	.500	1/2	32	64	1.000	

# Comparison of Gauges In Decimal Parts of an Inch

Gauge Number	J. & L. Gauge	Birmingham Wire (B. W. G.) also known as Stubs Iron Wire	American Wire or Browne & Sharpe	British Imperial Standard Wire (S. W. G.)	Standard Birmingham Sheet and Hoop (B. G.)	United States Standard for Sheet Iron and Plate Steel
0000000	.4900	.....	.....	.500	.....	.500
000000	.4615	.....	.580000	.464	.....	.46875
00000	.4305	.500	.516500	.432	.....	.4375
0000	.3938	.454	.460000	.400	.....	.40625
000	.3625	.425	.409642	.372	.5000	.375
00	.3310	.380	.364796	.348	.4452	.34375
0	.3065	.340	.324861	.324	.3964	.3125
1	.2830	.300	.289297	.300	.3532	.28125
2	.2625	.284	.257627	.276	.3147	.265625
3	.2437	.259	.229423	.252	.2804	.25
4	.2253	.238	.204307	.232	.2500	.234375
5	.2070	.220	.181940	.212	.2225	.21875
6	.1920	.203	.162023	.192	.1981	.203125
7	.1770	.180	.144285	.176	.1764	.1875
8	.1620	.165	.128490	.160	.1570	.171875
9	.1483	.148	.114423	.144	.1398	.15625
10	.1350	.134	.101897	.128	.1250	.140625
11	.1205	.120	.090742	.116	.1113	.125
12	.1055	.109	.080808	.104	.0991	.109375
13	.0915	.095	.071962	.092	.0882	.09375
14	.0800	.083	.064084	.080	.0785	.078125
15	.0720	.072	.057068	.072	.0699	.0703125
16	.0625	.065	.050821	.064	.0625	.0625
17	.0540	.058	.045257	.056	.0556	.05625
18	.0475	.049	.040303	.048	.0495	.05
19	.0410	.042	.035890	.040	.0440	.04375
20	.0348	.035	.031961	.036	.0392	.0375
21	.03175	.032	.028462	.032	.0349	.034375
22	.0286	.028	.025346	.028	.03125	.03125
23	.0258	.025	.022572	.024	.02782	.028125
24	.0230	.022	.020101	.022	.02476	.025
25	.0204	.020	.017900	.020	.02204	.021875
26	.0181	.018	.015941	.018	.01961	.01875
27	.0173	.016	.014195	.0164	.01745	.0171875
28	.0162	.014	.012641	.0148	.015625	.015625
29	.0150	.013	.011257	.0136	.0139	.0140625
30	.0140	.012	.010025	.0124	.0123	.0125
31	.0132	.010	.008928	.0116	.0110	.0109375
32	.0128	.009	.007950	.0108	.0098	.01015625
33	.0118	.008	.007080	.0100	.0087	.009375
34	.0104	.007	.006305	.0092	.0077	.00859375
35	.0095	.005	.005615	.0084	.0069	.0078125
36	.0090	.004	.005000	.0076	.0061	.00703125
37	.0085	.....	.004453	.0068	.0054	.006640625
38	.0080	.....	.003965	.0060	.0048	.00625
39	.0075	.....	.003531	.0052	.....	.....
40	.0070	.....	.003144	.0048	.....	.....

Birmingham Wire Gauge is used for No. 8, No. 9 and No. 10 sheared plates; also bands and hoops.

United States Standard Gauge is used for No. 11 sheared plates; also for Black Plates (Tin mill sizes). Tin plate is rolled to weight per base box.

J. & L. Gauge, which corresponds to Washburn & Moen Gauge, is used for all common wire products, unless otherwise specified.

Since the use of numbers to express thickness or size leads to confusion, decimal parts of an inch should be employed when fractions can not be used conveniently.



# United States Standard Gauge for Sheet and Plate Iron and Steel

Number of Gauge	Approximate Thickness in Fractions of an Inch	Approximate Thickness in Decimal parts of an Inch	Approximate Thickness in Millimeters	Weight per Square Foot in Pounds Avoirdupois, Iron	Weight per Square Foot in Pounds Avoirdupois, Steel	Weight per Square Meter in Kilo-grammes, Steel
0000000	$\frac{1}{16}$	.5	12.70	20.	20.4	99.601
000000	$\frac{1}{8}$	.46875	11.91	18.75	19.125	93.376
00000	$\frac{3}{16}$	.4375	11.11	17.50	17.85	87.151
0000	$\frac{1}{4}$	.40625	10.32	16.25	16.575	80.926
000	$\frac{5}{16}$	.375	9.53	15.	15.3	74.701
00	$\frac{3}{8}$	.34375	8.73	13.75	14.025	68.476
0	$\frac{1}{2}$	.3125	7.94	12.50	12.75	62.251
1	$\frac{5}{8}$	.28125	7.14	11.25	11.475	56.026
2	$\frac{3}{4}$	.265625	6.75	10.625	10.8375	52.913
3	$\frac{7}{8}$	.25	6.35	10.	10.2	49.800
4	$\frac{15}{16}$	.234375	5.95	9.375	9.5625	46.688
5	$\frac{1}{1}$	.21875	5.56	8.75	8.925	43.575
6	$\frac{1}{1}$	.203125	5.16	8.125	8.2875	40.463
7	$\frac{1}{1}$	.1875	4.76	7.5	7.65	37.350
8	$\frac{1}{1}$	.171875	4.37	6.875	7.0125	34.238
9	$\frac{1}{1}$	.15625	3.97	6.25	6.375	31.125
10	$\frac{1}{1}$	.140625	3.57	5.625	5.7375	28.013
11	$\frac{1}{1}$	.125	3.18	5.	5.1	24.900
12	$\frac{1}{1}$	.109375	2.78	4.375	4.4625	21.788
13	$\frac{1}{1}$	.09375	2.38	3.75	3.825	18.675
14	$\frac{1}{1}$	.078125	1.98	3.125	3.1875	15.563
15	$\frac{1}{1}$	.0703125	1.79	2.8125	2.86875	14.006
16	$\frac{1}{1}$	.0625	1.59	2.5	2.55	12.450
17	$\frac{1}{1}$	.05625	1.43	2.25	2.295	11.205
18	$\frac{1}{1}$	.05	1.27	2.	2.04	9.960
19	$\frac{1}{1}$	.04375	1.11	1.75	1.785	8.715
20	$\frac{1}{1}$	.0375	.953	1.50	1.53	7.470
21	$\frac{1}{1}$	.034375	.873	1.375	1.4025	6.848
22	$\frac{1}{1}$	.03125	.794	1.25	1.275	6.225
23	$\frac{1}{1}$	.028125	.714	1.125	1.1475	5.603
24	$\frac{1}{1}$	.025	.635	1.	1.02	4.980
25	$\frac{1}{1}$	.021875	.556	.875	.8925	4.358
26	$\frac{1}{1}$	.01875	.476	.75	.765	3.735
27	$\frac{1}{1}$	.0171875	.437	.6875	.70125	3.424
28	$\frac{1}{1}$	.015625	.397	.625	.6375	3.113
29	$\frac{1}{1}$	.0140625	.357	.5625	.57375	2.801
30	$\frac{1}{1}$	.0125	.318	.5	.51	2.490
31	$\frac{1}{1}$	.0109375	.278	.4375	.44625	2.179
32	$\frac{1}{1}$	.01015625	.258	.40625	.414375	2.023
33	$\frac{1}{1}$	.009375	.238	.375	.3825	1.868
34	$\frac{1}{1}$	.00859375	.218	.34375	.350625	1.712
35	$\frac{1}{1}$	.0078125	.198	.3125	.31875	1.556
36	$\frac{1}{1}$	.00703125	.179	.28125	.286875	1.401
37	$\frac{1}{1}$	.006640625	.169	.265625	.2709375	1.323
38	$\frac{1}{1}$	.00625	.159	.25	.255	1.245

The United States Standard Gauge was legalized by Act of Congress March 3, 1893, as a standard gauge for Sheet and Plate Iron and Steel.

Since the use of numbers to express thickness or size leads to confusion, decimal parts of an inch should be employed where fractions can not be used conveniently.



# JONES & LAUGHLIN STEEL COMPANY

## Birmingham Wire Gauge Equivalents in Inches

Corresponding Weights of Flat Rolled Steel

Gauge Number	Thickness, Inches	Pounds per Square Foot	THICKNESS, INCHES		Pounds per Square Foot
			Fractional	Decimal	
.....	.....	.....	$\frac{1}{2}$	.5	20.4
0000	.454	18.5232	$\frac{15}{32}$	.46875	19.125
000	.425	17.34	$\frac{7}{16}$	.4375	17.85
.....	.....	.....	$\frac{13}{32}$	.40625	16.575
00	.380	15.504	$\frac{3}{8}$	.375	15.3
0	.340	13.872	$\frac{11}{32}$	.34375	14.025
.....	.....	.....	$\frac{5}{16}$	.3125	12.75
1	.300	12.24	$\frac{19}{64}$	.296875	12.1125
2	.284	11.5872	$\frac{9}{32}$	.28125	11.475
3	.259	10.5672	$\frac{17}{64}$	.265625	10.8375
.....	.....	.....	$\frac{1}{4}$	.25	10.2
4	.238	9.7104	$\frac{15}{64}$	.234375	9.5625
.....	.....	.....	$\frac{7}{32}$	.21875	8.925
5	.220	8.976	$\frac{13}{64}$	.203125	8.2875
6	.203	8.2824	$\frac{3}{16}$	.1875	7.65
7	.180	7.344	$\frac{11}{64}$	.171875	7.0125
8	.165	6.732	.....	.....	.....
.....	.....	.....	$\frac{5}{32}$	.15625	6.375
9	.148	6.0384	$\frac{9}{64}$	.140625	5.7375
10	.134	5.4672	$\frac{1}{8}$	.125	5.1
11	.120	4.896	$\frac{7}{64}$	.109375	4.4625
12	.109	4.4472	.....	.....	.....
.....	.....	.....	$\frac{3}{32}$	.09375	3.825
13	.095	3.876	$\frac{5}{64}$	.078125	3.1875
14	.083	3.3864	.....	.....	.....
15	.072	2.9376	$\frac{1}{16}$	.0625	2.55
16	.065	2.651	.....	.....	.....
.....	.....	.....	$\frac{3}{64}$	.046875	1.9125
17	.058	2.3664	.....	.....	.....
18	.049	1.9992	.....	.....	.....
19	.042	1.7136	.....	.....	.....
20	.035	1.428	.....	.....	.....
.....	.....	.....	$\frac{1}{32}$	.03125	1.275
21	.032	1.3056	.....	.....	.....
22	.028	1.1424	.....	.....	.....
23	.025	1.02	.....	.....	.....
24	.022	0.8976	.....	.....	.....
.....	.....	.....	.....	.....	.....
25	.020	0.816	.....	.....	.....
26	.018	0.7344	.....	.....	.....
27	.016	0.6528	$\frac{1}{64}$	.015625	0.6375
28	.014	0.5712	.....	.....	.....
.....	.....	.....	.....	.....	.....
29	.013	0.5304	.....	.....	.....
30	.012	0.4896	.....	.....	.....
31	.010	0.408	.....	.....	.....
32	.009	0.3672	.....	.....	.....
.....	.....	.....	$\frac{1}{128}$	.0078125	0.31875
33	.008	0.3264	.....	.....	.....
34	.007	0.2856	.....	.....	.....
35	.005	0.2040	$\frac{1}{256}$	.00390625	0.159375
36	.004	0.1632	.....	.....	.....

# U. S. and Metric Equivalents

## INCHES IN METERS

Inches	Meters	Inches	Meters	Inches	Meters
$\frac{1}{64}$	.000396785	$\frac{13}{32}$	.01031875	$\frac{51}{64}$	.020240625
$\frac{1}{32}$	.00079375	$\frac{27}{64}$	.010715625	$\frac{13}{16}$	.0206375
$\frac{3}{64}$	.001190625	$\frac{7}{16}$	.0111125	$\frac{53}{64}$	.021034375
$\frac{1}{16}$	.0015875	$\frac{29}{64}$	.011509375	$\frac{27}{32}$	.02143125
$\frac{5}{64}$	.001984375	$\frac{15}{32}$	.01190625	$\frac{55}{64}$	.021828125
$\frac{3}{32}$	.00238125	$\frac{31}{64}$	.012303125	$\frac{7}{8}$	.022225
$\frac{7}{64}$	.002778125	$\frac{1}{2}$	.0127	$\frac{57}{64}$	.022621875
$\frac{1}{8}$	.003175	$\frac{33}{64}$	.013096875	$\frac{29}{32}$	.02301875
$\frac{9}{64}$	.003571875	$\frac{17}{32}$	.01349375	$\frac{59}{64}$	.023415625
$\frac{5}{32}$	.00396875	$\frac{35}{64}$	.013890625	$\frac{15}{16}$	.0238125
$\frac{11}{64}$	.004365625	$\frac{9}{16}$	.0142875	$\frac{61}{64}$	.024209375
$\frac{3}{16}$	.0047625	$\frac{37}{64}$	.014684375	$\frac{31}{32}$	.02460625
$\frac{13}{64}$	.005159375	$\frac{19}{32}$	.01508125	$\frac{63}{64}$	.025003125
$\frac{7}{32}$	.00555625	$\frac{39}{64}$	.015478125		
$\frac{15}{64}$	.005953125	$\frac{5}{8}$	.015875		
$\frac{1}{4}$	.00635	$\frac{41}{64}$	.016271875		
$\frac{17}{64}$	.006746875	$\frac{21}{32}$	.01666875		
$\frac{9}{32}$	.00714375	$\frac{43}{64}$	.017065625		
$\frac{19}{64}$	.007540625	$\frac{11}{16}$	.0174625		
$\frac{5}{16}$	.0079375	$\frac{45}{64}$	.017859375		
$\frac{21}{64}$	.008334375	$\frac{23}{32}$	.01825625		
$\frac{11}{32}$	.00873125	$\frac{47}{64}$	.018653125		
$\frac{23}{64}$	.009128125	$\frac{3}{4}$	.01905		
$\frac{3}{8}$	.009525	$\frac{49}{64}$	.019446875		
$\frac{25}{64}$	.009921875	$\frac{25}{32}$	.01984375		

# U. S. and Metric Equivalents

## Continued

## INCHES IN METERS

Inches	Meters	Inches	Meters	Inches	Meters	Inches	Meters
1	.0254	26	.6604	51	1.2954	76	1.9304
2	.0508	27	.6858	52	1.3208	77	1.9558
3	.0762	28	.7112	53	1.3462	78	1.9812
4	.1016	29	.7366	54	1.3716	79	2.0066
5	.127	30	.762	55	1.397	80	2.032
6	.1524	31	.7874	56	1.4224	81	2.0574
7	.1778	32	.8128	57	1.4478	82	2.0828
8	.2032	33	.8382	58	1.4732	83	2.1082
9	.2286	34	.8636	59	1.4986	84	2.1336
10	.254	35	.889	60	1.524	85	2.159
11	.2794	36	.9144	61	1.5494	86	2.1844
12	.3048	37	.9398	62	1.5748	87	2.2098
13	.3302	38	.9652	63	1.6002	88	2.2352
14	.3556	39	.9906	64	1.6256	89	2.2606
15	.381	40	1.016	65	1.651	90	2.286
16	.4064	41	1.0414	66	1.6764	91	2.3114
17	.4318	42	1.0668	67	1.7018	92	2.3368
18	.4572	43	1.0922	68	1.7272	93	2.3622
19	.4826	44	1.1176	69	1.7526	94	2.3876
20	.508	45	1.143	70	1.778	95	2.413
21	.5334	46	1.1684	71	1.8034	96	2.4384
22	.5588	47	1.1938	72	1.8288	97	2.4638
23	.5842	48	1.2192	73	1.8542	98	2.4892
24	.6096	49	1.2446	74	1.8796	99	2.5146
25	.635	50	1.27	75	1.905	100	2.540

# U. S. and Metric Equivalents

## Continued

## MILLIMETERS IN INCHES

Mm.	Inches	Mm.	Inches	Mm.	Inches	Mm.	Inches
1	0.0394	26	1.0236	51	2.008	76	2.992
2	0.0788	27	1.063	52	2.047	77	3.0314
3	0.1182	28	1.102	53	2.0865	78	3.0708
4	0.1575	29	1.141	54	2.126	79	3.11
5	0.197	30	1.181	55	2.165	80	3.1496
6	0.2363	31	1.22	56	2.2046	81	3.189
7	0.2756	32	1.26	57	2.244	82	3.2283
8	0.315	33	1.30	58	2.283	83	3.2677
9	0.3543	34	1.338	59	2.3227	84	3.307
10	0.3937	35	1.3778	60	2.362	85	3.3464
11	0.433	36	1.417	61	2.401	86	3.3858
12	0.4724	37	1.4565	62	2.441	87	3.4252
13	0.512	38	1.496	63	2.48	88	3.4645
14	0.551	39	1.535	64	2.52	89	3.504
15	0.59	40	1.575	65	2.559	90	3.5433
16	0.63	41	1.614	66	2.598	91	3.5826
17	0.669	42	1.653	67	2.6378	92	3.622
18	0.7086	43	1.6928	68	2.677	93	3.6614
19	0.748	44	1.732	69	2.7165	94	3.7007
20	0.7874	45	1.7715	70	2.7559	95	3.74
21	0.8267	46	1.811	71	2.7952	96	3.779
22	0.866	47	1.85	72	2.8346	97	3.819
23	0.9055	48	1.89	73	2.874	98	3.858
24	0.945	49	1.929	74	2.9134	99	3.8976
25	0.984	50	1.968	75	2.9527	100	3.937



# JONES & LAUGHLIN STEEL COMPANY

## U. S. and Metric Equivalents Continued

### MILES IN KILOMETERS

Miles	Kilometers	Miles	Kilometers	Miles	Kilometers	Miles	Kilometers
1	1.609321	26	41.842346	51	82.075371	76	122.308396
2	3.218642	27	43.451667	52	83.684692	77	123.917717
3	4.827963	28	45.060988	53	85.294013	78	125.527038
4	6.437284	29	46.670309	54	86.903334	79	127.136359
5	8.046605	30	48.27963	55	88.512655	80	128.74568
6	9.655926	31	49.888951	56	90.121976	81	130.355001
7	11.265247	32	51.498272	57	91.731297	82	131.964322
8	12.874568	33	53.107593	58	93.340618	83	133.573643
9	14.483889	34	54.716914	59	94.949939	84	135.182964
10	16.09321	35	56.326235	60	96.55926	85	136.792285
11	17.702531	36	57.935556	61	98.168581	86	138.401606
12	19.311852	37	59.544877	62	99.777902	87	140.010927
13	20.921173	38	61.154198	63	101.387223	88	141.620248
14	22.530494	39	62.763519	64	102.996544	89	143.229569
15	24.139815	40	64.37284	65	104.605865	90	144.83889
16	25.749136	41	65.982161	66	106.215186	91	146.448211
17	27.358457	42	67.591482	67	107.824507	92	148.057532
18	28.967778	43	69.200803	68	109.433828	93	149.666853
19	30.577099	44	70.810124	69	111.043149	94	151.276174
20	32.18642	45	72.419445	70	112.65247	95	152.885495
21	33.795741	46	74.028766	71	114.261791	96	154.494816
22	35.405062	47	75.638087	72	115.871112	97	156.104137
23	37.014383	48	77.247408	73	117.480433	98	157.713458
24	38.623704	49	78.856729	74	119.089754	99	159.322779
25	40.233025	50	80.46605	75	120.699075	100	160.9321

# U. S. and Metric Equivalents

## Continued

## FEET IN METERS

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	.3048	26	7.9248	51	15.5448	76	23.1648
2	.6096	27	8.2296	52	15.8496	77	23.4696
3	.9144	28	8.5344	53	16.1544	78	23.7744
4	1.2192	29	8.8392	54	16.4592	79	24.0792
5	1.524	30	9.144	55	16.764	80	24.384
6	1.8288	31	9.4488	56	17.0688	81	24.6888
7	2.1336	32	9.7536	57	17.3736	82	24.9936
8	2.4384	33	10.0584	58	17.6784	83	25.2984
9	2.7432	34	10.3632	59	17.9832	84	25.6032
10	3.048	35	10.668	60	18.288	85	25.908
11	3.3528	36	10.9728	61	18.5928	86	26.2128
12	3.6576	37	11.2776	62	18.8976	87	26.5176
13	3.9624	38	11.5824	63	19.2024	88	26.8224
14	4.2672	39	11.8872	64	19.5072	89	27.1272
15	4.572	40	12.192	65	19.812	90	27.432
16	4.8768	41	12.4968	66	20.1168	91	27.7368
17	5.1816	42	12.8016	67	20.4216	92	28.0416
18	5.4864	43	13.1064	68	20.7264	93	28.3464
19	5.7912	44	13.4112	69	21.0312	94	28.6512
20	6.096	45	13.716	70	21.336	95	28.956
21	6.4008	46	14.0208	71	21.6408	96	29.2608
22	6.7056	47	14.3256	72	21.9456	97	29.5656
23	7.0104	48	14.6304	73	22.2504	98	29.8704
24	7.3152	49	14.9352	74	22.5552	99	30.1752
25	7.62	50	15.24	75	22.86	100	30.48

U. S. and Metric Equivalents  
Continued

METERS IN FEET

Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
1	3.2809	26	85.3034	51	167.3258	76	249.3483
2	6.5618	27	88.5843	52	170.6067	77	252.6292
3	9.8427	28	91.8652	53	173.8876	78	255.9101
4	13.1236	29	95.1461	54	177.1685	79	259.191
5	16.4045	30	98.427	55	180.4494	80	262.4719
6	19.6854	31	101.7079	56	183.7303	81	265.7528
7	22.9663	32	104.9888	57	187.0112	82	269.0337
8	26.2472	33	108.2697	58	190.2921	83	272.3146
9	29.5281	34	111.5506	59	193.573	84	275.5955
10	32.809	35	114.8315	60	196.8539	85	278.8764
11	36.0899	36	118.1124	61	200.1348	86	282.1573
12	39.3708	37	121.3933	62	203.4157	87	285.4362
13	42.6517	38	124.6742	63	206.6966	88	288.7191
14	45.9326	39	127.9551	64	209.9775	89	292.
15	49.2135	40	131.236	65	213.2584	90	295.2809
16	52.4944	41	134.5169	66	216.5393	91	298.5618
17	55.7753	42	137.7978	67	219.8202	92	301.8427
18	59.0562	43	141.0787	68	223.1011	93	305.1236
19	62.3371	44	144.3596	69	226.382	94	308.4045
20	65.618	45	147.6405	70	229.6629	95	311.6854
21	68.8989	46	150.9214	71	232.9438	96	314.9663
22	72.1798	47	154.2023	72	236.2247	97	318.2472
23	75.4607	48	157.4832	73	239.5056	98	321.5281
24	78.7416	49	160.7641	74	242.7865	99	324.809
25	82.0225	50	164.045	75	246.0674	100	328.0899



# U. S. and Metric Equivalents

## Continued

## SQUARE FEET IN SQUARE METERS

Square Feet	Square Meters	Square Feet	Square Meters	Square Feet	Square Meters	Square Feet	Square Meters
1	.0929	26	2.4154	51	4.7379	76	7.0604
2	.1858	27	2.5083	52	4.8308	77	7.1533
3	.2787	28	2.6012	53	4.9237	78	7.2462
4	.3716	29	2.6941	54	5.0166	79	7.3391
5	.4645	30	2.787	55	5.1095	80	7.432
6	.5574	31	2.8799	56	5.2024	81	7.5249
7	.6503	32	2.9728	57	5.2953	82	7.6178
8	.7432	33	3.0657	58	5.3882	83	7.7107
9	.8361	34	3.1586	59	5.4811	84	7.8036
10	.929	35	3.2515	60	5.574	85	7.8965
11	1.0219	36	3.3444	61	5.6669	86	7.9894
12	1.1148	37	3.4373	62	5.7598	87	8.0823
13	1.2077	38	3.5302	63	5.8527	88	8.1752
14	1.3006	39	3.6231	64	5.9456	89	8.2681
15	1.3935	40	3.716	65	6.0385	90	8.361
16	1.4864	41	3.8089	66	6.1314	91	8.4539
17	1.5793	42	3.9018	67	6.2243	92	8.5468
18	1.6722	43	3.9947	68	6.3172	93	8.6397
19	1.7651	44	4.0876	69	6.4101	94	8.7326
20	1.858	45	4.1805	70	6.503	95	8.8255
21	1.9509	46	4.2734	71	6.5959	96	8.9184
22	2.0438	47	4.3663	72	6.6888	97	9.0113
23	2.1367	48	4.4592	73	6.7817	98	9.1042
24	2.2296	49	4.5521	74	6.8746	99	9.1971
25	2.3225	50	4.645	75	6.9675	100	9.29



U. S. and Metric Equivalents  
Continued

SQUARE METERS IN SQUARE FEET

Square Meters	Square Feet	Square Meters	Square Feet	Square Meters	Square Feet	Square Meters	Square Feet
1	10.764	26	279.872	51	548.979	76	818.087
2	21.528	27	290.636	52	559.744	77	828.851
3	32.293	28	301.40	53	570.508	78	839.615
4	43.057	29	312.165	54	581.272	79	850.38
5	53.821	30	322.929	55	592.036	80	861.144
6	64.586	31	333.693	56	602.8	81	871.908
7	75.35	32	344.458	57	613.565	82	882.673
8	86.114	33	355.222	58	624.329	83	893.437
9	96.879	34	365.986	59	635.094	84	904.207
10	107.643	35	376.75	60	645.858	85	914.965
11	118.407	36	387.515	61	656.622	86	925.73
12	129.172	37	398.279	62	667.387	87	936.494
13	139.936	38	409.043	63	678.151	88	947.258
14	150.7	39	419.808	64	688.915	89	958.023
15	161.464	40	430.572	65	699.679	90	968.787
16	172.229	41	441.336	66	710.444	91	979.551
17	182.993	42	452.10	67	721.208	92	990.316
18	193.757	43	462.865	68	731.971	93	1001.08
19	204.522	44	473.629	69	742.736	94	1011.844
20	215.286	45	484.393	70	753.501	95	1022.608
21	226.05	46	495.158	71	764.265	96	1033.373
22	236.815	47	505.922	72	775.03	97	1044.137
23	247.579	48	516.686	73	785.794	98	1054.901
24	258.343	49	527.45	74	796.558	99	1065.666
25	269.107	50	538.215	75	807.322	100	1076.43

# U. S. and Metric Equivalents

## Continued

KILOGRAMMES PER SQUARE CENTIMETER IN  
POUNDS PER SQUARE INCH

Kgs. per Sq. Cm.	Lbs. per Sq. In.	Kgs. per Sq. Cm.	Lbs. per Sq. In.	Kgs. per Sq. Cm.	Lbs. per Sq. In.	Kgs. per Sq. Cm.	Lbs. per Sq. In.
1	14.223	3.6	51.203	6.2	88.183	8.8	125.162
1.1	15.645	3.7	52.625	6.3	89.605	8.9	126.585
1.2	17.068	3.8	54.047	6.4	91.027	9	128.007
1.3	18.490	3.9	55.470	6.5	92.450	9.1	129.429
1.4	19.912	4	56.892	6.6	93.872	9.2	130.852
1.5	21.335	4.1	58.314	6.7	95.294	9.3	132.274
1.6	22.757	4.2	59.737	6.8	96.716	9.4	133.696
1.7	24.179	4.3	61.159	6.9	98.139	9.5	135.119
1.8	25.601	4.4	62.581	7	99.561	9.6	136.541
1.9	27.024	4.5	64.004	7.1	100.983	9.7	137.963
2	28.446	4.6	65.426	7.2	102.406	9.8	139.385
2.1	29.868	4.7	67.848	7.3	103.828	9.9	140.808
2.2	31.291	4.8	68.270	7.4	105.250	10	142.230
2.3	32.713	4.9	69.693	7.5	106.673	10.1	143.652
2.4	34.135	5	71.115	7.6	108.095	10.2	145.074
2.5	35.558	5.1	72.537	7.7	109.517	10.3	146.497
2.6	36.980	5.2	73.960	7.8	110.939	10.4	147.919
2.7	38.402	5.3	75.382	7.9	112.362	10.5	149.341
2.8	39.824	5.4	76.804	8	113.784	10.6	150.764
2.9	41.247	5.5	78.227	8.1	115.206	10.7	152.186
3	42.669	5.6	79.649	8.2	116.629	10.8	153.608
3.1	44.091	5.7	81.071	8.3	118.051	10.9	155.030
3.2	45.514	5.8	82.493	8.4	119.473	11	156.453
3.3	46.936	5.9	83.916	8.5	120.896	11.1	157.875
3.4	48.358	6	85.338	8.6	122.318	11.2	159.297
3.5	49.781	6.1	86.760	8.7	123.740	11.3	160.720

## U. S. and Metric Equivalents

### Continued

POUNDS PER SQUARE INCH IN KILOGRAMMES  
PER SQUARE CENTIMETER

Lbs. per Sq. In.	Kgs. per Sq. Cm.	Lbs. per Sq. In.	Kgs. per Sq. Cm.	Lbs. per Sq. In.	Kgs. per Sq. Cm.	Lbs. per Sq. In.	Kgs. per Sq. Cm.
1	.0703	26	1.828	51	3.5857	76	5.3434
2	.1406	27	1.8983	52	3.656	77	5.4138
3	.2109	28	1.9686	53	3.7263	78	5.4841
4	.2812	29	2.0389	54	3.7966	79	5.5544
5	.3515	30	2.1092	55	3.8669	80	5.6247
6	.4218	31	2.1795	56	3.9373	81	5.695
7	.4921	32	2.2498	57	4.0076	82	5.7653
8	.5624	33	2.3202	58	4.0779	83	5.8356
9	.6327	34	2.3905	59	4.1482	84	5.9059
10	.70309	35	2.4608	60	4.2185	85	5.9762
11	.7734	36	2.5311	61	4.2888	86	6.0465
12	.8437	37	2.6014	62	4.3591	87	6.1168
13	.9140	38	2.6717	63	4.4294	88	6.1872
14	.9843	39	2.7420	64	4.4997	89	6.2575
15	1.0546	40	2.8123	65	4.5700	90	6.3278
16	1.1249	41	2.8826	66	4.6404	91	6.3981
17	1.1952	42	2.9529	67	4.7107	92	6.4684
18	1.2655	43	3.0232	68	4.781	93	6.5387
19	1.3358	44	3.0936	69	4.8513	94	6.609
20	1.4062	45	3.1639	70	4.9216	95	6.6793
21	1.4765	46	3.2342	71	4.9919	96	6.7496
22	1.5468	47	3.3045	72	5.0622	97	6.8199
23	1.6171	48	3.3748	73	5.1325	98	6.8902
24	1.6874	49	3.4451	74	5.2028	99	6.9606
25	1.7577	50	3.5154	75	5.2731	100	7.0309



# U. S. and Metric Equivalents

## Continued

## POUNDS IN KILOGRAMMES

Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.
1	.453593	26	11.793418	51	23.133243	76	34.473068
2	.907186	27	12.247011	52	23.586836	77	34.926661
3	1.360779	28	12.700604	53	24.040429	78	35.380254
4	1.814372	29	13.154197	54	24.494022	79	35.833847
5	2.267965	30	13.60779	55	24.947615	80	36.28744
6	2.721558	31	14.061383	56	25.401208	81	36.741033
7	3.175151	32	14.514976	57	25.854801	82	37.194626
8	3.628744	33	14.968569	58	26.308394	83	37.648219
9	4.082337	34	15.422162	59	26.761987	84	38.101812
10	4.53593	35	15.875755	60	27.21558	85	38.555405
11	4.989523	36	16.329348	61	27.669173	86	39.008998
12	5.443116	37	16.782941	62	28.122766	87	39.462591
13	5.896709	38	17.236534	63	28.576359	88	39.916184
14	6.350302	39	17.690127	64	29.029952	89	40.369777
15	6.803895	40	18.14372	65	29.483545	90	40.82337
16	7.257488	41	18.597313	66	29.937138	91	41.276963
17	7.711081	42	19.050906	67	30.390731	92	41.730556
18	8.164674	43	19.504499	68	30.844324	93	42.184149
19	8.618267	44	19.958092	69	31.297917	94	42.637742
20	9.07186	45	20.411685	70	31.75151	95	43.091335
21	9.525453	46	20.865278	71	32.205103	96	43.544928
22	9.979046	47	21.318871	72	32.658696	97	43.998521
23	10.432639	48	21.772464	73	33.112289	98	44.452114
24	10.886232	49	22.226057	74	33.565882	99	44.905707
25	11.339825	50	22.67965	75	34.019475	100	45.3593



# JONES & LAUGHLIN STEEL COMPANY

## U. S. and Metric Equivalents Concluded

### KILOGRAMMES IN POUNDS

Kgs.	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.	Kgs.	Lbs.
1	2.205	26	57.320	51	112.435	76	167.550
2	4.409	27	59.524	52	114.639	77	169.754
3	6.614	28	61.729	53	116.844	78	171.959
4	8.818	29	63.933	54	119.048	79	174.163
5	11.023	30	66.138	55	121.253	80	176.368
6	13.228	31	68.343	56	123.458	81	178.573
7	15.432	32	70.547	57	125.662	82	180.777
8	17.637	33	72.752	58	127.867	83	182.982
9	19.841	34	74.956	59	130.071	84	185.186
10	22.046	35	77.161	60	132.276	85	187.391
11	24.251	36	79.366	61	134.481	86	189.596
12	26.455	37	81.570	62	136.685	87	191.800
13	28.660	38	83.775	63	138.890	88	194.005
14	30.864	39	85.979	64	141.094	89	196.209
15	33.069	40	88.184	65	143.299	90	198.414
16	35.274	41	90.389	66	145.504	91	200.619
17	37.478	42	92.593	67	147.708	92	202.823
18	39.683	43	94.798	68	149.913	93	205.028
19	41.887	44	97.002	69	152.117	94	207.232
20	44.092	45	99.207	70	154.322	95	209.437
21	46.297	46	101.412	71	156.527	96	211.642
22	48.501	47	103.616	72	158.731	97	213.846
23	50.706	48	105.821	73	160.936	98	216.051
24	52.910	49	108.025	74	163.140	99	218.255
25	55.115	50	110.230	75	165.345	100	220.460

## Manufacturers' Standard Specifications for Structural and Boiler Steel

Standard specifications governing the chemical and physical properties of structural and boiler steel, as adopted by the Association of American Steel Manufacturers.—Revised April 22, 1919.

### Structural Steel

#### Grades

1. These specifications cover three classes of structural steel, namely:

Class A steel, to be used for railway bridges and ships.

Class B steel, to be used for buildings, highway bridges, train sheds and similar structures.

Class C steel, to be used for structural rivets.

### I. Manufacture

#### Process

2. Steel for Classes A and C shall be made by the open-hearth process. Steel for Class B may be made either by the open-hearth or by the Bessemer process.

### II. Chemical Properties and Tests

#### Chemical Composition

3. The steel shall conform to the following requirements as to chemical composition:

Elements Considered	Class A Steel	Class B Steel	Class C Steel
Phosphorus, max., per cent:			
Basic open-hearth .....	0.04	0.06	0.04
Acid open-hearth .....	0.06	0.08	0.04
Bessemer .....		0.10	.....
Sulphur, max., per cent .....	0.06	.....	0.05

### Ladle Analyses

4. To determine whether the material conforms to the requirements specified in section 3, an analysis shall be made by the manufacturer from a test ingot taken during the pouring of each melt. A copy of this analysis shall be given to the purchaser or his representative, if requested.

### Check Analyses

5. A check analysis of Class A and Class C steel may be made by the purchaser from finished material representing each melt, in which case an excess of 25 per cent above the requirements specified in section 3 shall be allowed.

## III. Physical Properties and Tests

### Tension Tests

6. The steel shall conform to the following requirements as to tensile properties:

Properties Considered	Class A Steel	Class B Steel	Class C Steel
Tensile strength, lbs. per sq. in.	55,000-65,000	55,000-65,000*	46,000-56,000
Yield point, minimum, lbs. per sq. in.	0.5 tens. str.	0.5 tens. str.	0.5 tens. str.
Elongation in 8 in., minimum, per cent	1,400,000†	1,400,000†	1,400,000
	tens. str.	tens. str.	tens. str.
Elongation in 2 in., minimum, per cent (Fig. 2)	22	22	.....

\* See section 8.

† See section 9.

### Yield Point

7. The yield point shall be determined by the drop of the beam of the testing machine.

### Modification in Tensile Strength

8. Class B steel may have tensile strength up to 70,000 lbs. maximum, provided the elongation is not less than the percentage required for 65,000 lbs. tensile strength.



### Modifications in Elongation

9. (a) For material over  $\frac{3}{4}$  inch in thickness, a deduction of 1 from the percentage of elongation in 8 inches specified for Classes A and B in section 6 shall be made for each increase of  $\frac{1}{8}$  inch in thickness above  $\frac{3}{4}$  inch to a minimum of 18 per cent.

(b) For material under  $\frac{5}{16}$  inch in thickness, a deduction of 2.5 from the percentage of elongation in 8 inches specified for Classes A and B in section 6 shall be made for each decrease of  $\frac{1}{16}$  inch in thickness below  $\frac{5}{16}$  inch.

### Character of Fracture

10. All broken tension test specimens shall show a silky fracture.

### Bend Tests

11. (a) The test specimen for plates, shapes and bars shall bend cold through 180 deg. without fracture on the outside of the bent portion, as follows: For material  $\frac{3}{4}$  inch and under in thickness, flat on itself; for material over  $\frac{3}{4}$  inch up to  $1\frac{1}{4}$  inches in thickness, around a pin the diameter of which is equal to  $1\frac{1}{2}$  times the thickness of the specimen; and for material over  $1\frac{1}{4}$  inches in thickness, around a pin the diameter of which is equal to twice the thickness of the specimen.

(b) The test specimen for pins and rollers shall bend cold through 180 deg. around a 1-inch pin without fracture on the outside of the bent portion.

(c) A rivet rod shall bend cold through 180 deg. flat on itself without fracture on the outside of the bent portion.

(d) Bend tests may be made by pressure or by blows.

### Test Specimens

12. (a) Tension and bend test specimens shall be taken from the finished rolled or forged product, and shall not be annealed or otherwise treated, except as specified in section 13.



(b) Tension and bend test specimens for plates, shapes and bars, except as specified in paragraph (c), shall be of the full thickness of material as rolled, and with both edges milled to the form and dimensions shown in Fig. 1, or may have both edges parallel.

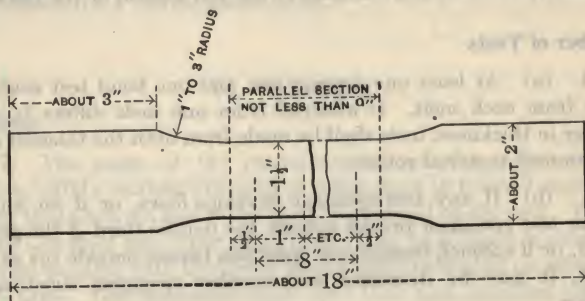


FIG. 1.

(c) Tension and bend test specimens for plates and bars (except eye-bar flats) over 1½ inches in thickness or diameter may be turned or planed to a diameter or thickness of at least ¾ inch for a length of at least 9 inches.

(d) Tension and bend test specimens for pins and rollers shall be taken parallel to the axis, 1 inch from the surface of the bar. Tension test specimens shall be of the form and dimensions shown in Fig. 2. Bend test specimens shall be 1 inch by  $\frac{1}{2}$  inch in section.

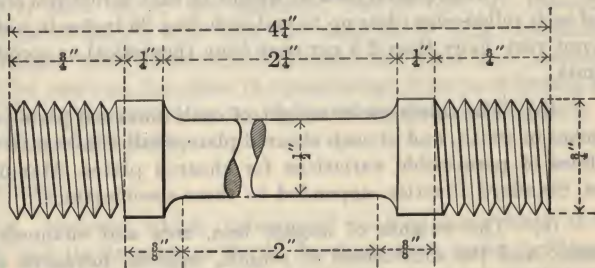


FIG. 2.

(e) Rivet bars shall be tested in full-size section as rolled.

### Annealed Specimens

13. Test specimens for material which is to be annealed or otherwise treated before use, shall be cut from properly annealed or similarly treated short lengths of the full section of the piece.

### Number of Tests

14. (a) At least one tension test and one bend test shall be made from each melt. If material from one melt differs  $\frac{3}{8}$  inch or more in thickness, tests shall be made from both the thickest and the thinnest material rolled.

(b) If any test specimen develops flaws, or if an 8-inch tension test specimen breaks outside the middle third of the gauge length, or if a 2-inch tension test specimen breaks outside the gauge length, it may be discarded and another specimen substituted therefor.

(c) Material intended for fillers or ornamental purposes will not be subject to test.

## IV. Permissible Variations in Weight and Gauge

### Permissible Variations

15. (a) The sectional area or weight of each structural shape and of each rolled-edge plate up to and including 36 inches in width, shall not vary more than 2.5 per cent from theoretical or specified amounts.

(b) The thickness or weight of each universal plate over 36 inches in width, and of each sheared plate, shall conform to the schedules of permissible variations for sheared plates, Manufacturers' Standard Practice, appended to these specifications.

(c) The weights of angles, tees, zeos and channels of bar sizes, and the dimensions of rounds, squares, hexagons and flats, shall conform to the Manufacturers' Standard Practice governing the allowable variations in size and weight of hot-rolled bars.

## V. Finish

### Finish

16. The finished material shall be free from injurious defects, and shall have a workmanlike finish.

## VI. Marking

### Marking

17. The name of the manufacturer and the melt number shall be legibly marked, stamped or rolled upon all finished material, except that each pin and roller shall be stamped on the end. Rivet and lattice steel and other small pieces may be shipped in securely fastened bundles, with the above marks legibly stamped on attached metal tags. Test specimens shall have their melt numbers plainly marked or stamped.

## VII. Inspection and Rejection

### Inspection

18. The inspector representing the purchaser shall have free entry, at all times while work on the contract of the purchaser is being performed, to all parts of the manufacturer's works which concern the manufacture of the material ordered. The manufacturer shall afford the inspector, free of cost, all reasonable facilities to satisfy him that the material is being furnished in accordance with these specifications. All tests and inspection shall be made at the place of manufacture prior to shipment, and shall be so conducted as not to interfere unnecessarily with the operation of the works.

### Rejection

19. Material which, subsequent to the above tests at the mills and its acceptance there, develops weak spots, brittleness, cracks or other imperfections, or is found to have injurious defects, may be rejected at the shop, and shall then be replaced by the manufacturer at his own cost.



## Boiler Steel

### Grades

1. There shall be three grades of steel for boilers, namely: Flange, firebox and boiler rivet.

### I. Manufacture

#### Process

2. The steel shall be made by the open-hearth process.

### II. Chemical Properties and Tests

#### Chemical Composition

3. The steel shall conform to the following requirements as to chemical composition:

Elements Considered	Flange Steel	Firebox Steel	Boiler Rivet Steel
Manganese, per cent.....	0.30 to 0.60	0.30 to 0.50	0.30 to 0.50
Phosphorus, max., per cent:			
Basic.....	0.04	0.035	0.04
Acid.....	0.05	0.04	0.04
Sulphur, max., per cent.....	0.05	0.04	0.045

#### Ladle Analyses

4. To determine whether the material conforms to the requirements specified in section 3, an analysis shall be made by the manufacturer from a test ingot taken during the pouring of each melt. A copy of this analysis shall be given to the purchaser or his representative.

#### Check Analyses

5. A check analysis may be made by the purchaser from a broken tension test specimen representing each plate as rolled, and this analysis shall conform to the requirements specified in section 3.



### III. Physical Properties and Tests

#### Tension Tests

6. The steel shall conform to the following requirements as to tensile properties:

Properties Considered	Flange Steel	Firebox Steel	Boiler Rivet Steel
Tensile strength, lbs. per sq. in.	55,000-65,000	52,000-60,000	45,000-55,000
Yield point, minimum, lbs. per sq. in.	0.5 tens. str.	0.5 tens. str.	0.5 tens. str.
Elongation in 8 in., minimum, per cent.	1,450,000*	1,450,000*	1,450,000
	tens. str.	tens. str.	tens. str.

\* See section 8.

#### Yield Point

7. The yield point shall be determined by the drop of the beam of the testing machine.

#### Modifications in Elongation

8. (a) For plates over  $\frac{3}{4}$  inch in thickness, a deduction of 0.5 from the specified percentage of elongation will be allowed for each increase of  $\frac{1}{8}$  inch in thickness above  $\frac{3}{4}$  inch, to a minimum of 20 per cent.

(b) For plates under  $\frac{5}{16}$  inch in thickness, a deduction of 2.5 from the percentage of elongation specified in section 6 shall be made for each decrease of  $\frac{1}{16}$  inch in thickness below  $\frac{5}{16}$  inch.

#### Bend Tests

9. (a) Cold-bend tests shall be made on the material as rolled.

(b) Quench-bend test specimens, before bending, shall be heated to a light cherry red, as seen in the dark (about 1200 deg. F.), and quenched in water, the temperature of which is about 80 deg. F.

(c) Specimens for cold-bend and quench-bend tests of flange and firebox steel shall bend through 180 deg. without fracture on the outside of the bent portion, as follows: For material  $\frac{3}{4}$  inch and under in thickness, flat on themselves; for material over  $\frac{3}{4}$  inch up to  $1\frac{1}{4}$  inches in thickness, around a pin, the diameter of which is equal to the thickness of the specimen; and for material over  $1\frac{1}{4}$  inches in thickness, around a pin, the diameter of which is equal to  $1\frac{1}{2}$  times the thickness of the specimen.

(d) Specimens for cold-bend and quench-bend tests of boiler rivet steel shall bend cold through 180 deg. flat on themselves without fracture on the outside of the bent portion.

(e) Bend tests may be made by pressure or by blows.

### Test Specimens

10. (a) Tension and bend test specimens for plates shall be taken from the finished product, and shall be of the full thickness of material as rolled. Tension test specimens shall be of the form and dimensions shown in Fig. 1. Bend test specimens shall be  $1\frac{1}{2}$  inches to  $2\frac{1}{2}$  inches wide, and shall have the sheared edges milled or planed.

(b) The tension and bend test specimens for rivet bars shall be of the full-size section of material as rolled.

### Number of Tests

11. (a) One tension, one cold-bend and one quench-bend test shall be made from each plate as rolled.

(b) Two tension, two cold-bend and two quench-bend tests shall be made for each melt of rivet steel.

(c) If any test specimen develops flaws, or if a tension test specimen breaks outside the middle third of the gauge length, it may be discarded and another specimen substituted therefor.

## IV. Permissible Variations in Weight and Gauge

### Permissible Variations

12. (a) The thickness or weight of each sheared plate shall conform to the schedule of permissible variations, Manufacturers' Standard Practice, appended to these specifications.

(b) The dimensions of rivet bars shall conform to the Manufacturers' Standard Practice governing allowable variations in the size of hot-rolled bars.

## V. Finish

### Finish

13. The finished material shall be free from injurious defects, and shall have a workmanlike finish.

## VI. Marking

### Marking

14. The melt or slab number, name of the manufacturer, grade, and the minimum tensile strength for its grade as specified in section 6 shall be legibly stamped on each plate. The melt or slab number shall be legibly stamped on each test specimen representing that melt or slab.

## VII. Inspection and Rejection

### Inspection

15. The inspector representing the purchaser shall have free entry, at all times while work on the contract of the purchaser is being performed, to all parts of the manufacturer's works which concern the manufacture of the material ordered. The manufacturer shall afford the inspector, free of cost, all reasonable facilities to satisfy him that the material is being furnished in accordance with these specifications. All tests and inspection shall be made at the place of manufacture prior to shipment, and shall be so conducted as not to interfere unnecessarily with the operation of the works.

### Rejection

16. Material which, subsequent to the above tests at the mills and its acceptance there, develops weak spots, brittleness, cracks or other imperfections, or is found to have injurious defects, may be rejected at the shop, and shall then be replaced by the manufacturer at his own cost.



# Manufacturers' Standard Practice

Permissible variations in weight and thickness of Sheared Plates. One cubic inch of Rolled Steel is assumed to weigh 0.2833 pound.

## When Ordered to Weight Per Square Foot

The weight of each lot (\*) in each shipment shall not vary from the weight ordered more than the amount given in the following table:

Ordered Weight, Lbs. Per Square Foot		PERMISSIBLE VARIATIONS IN AVERAGE WEIGHTS PER SQUARE FOOT OF PLATES FOR WIDTHS GIVEN, EXPRESSED IN PERCENTAGES OF ORDERED WEIGHTS																	
		Under 48 inches		48 to 60 inches exclusive		60 to 72 inches exclusive		72 to 84 inches exclusive		84 to 96 inches exclusive		96 to 108 inches exclusive		108 to 120 inches exclusive		120 to 132 inches exclusive		132 to 144 inches exclusive	
		Over	Under	Over	Under	Over	Under	Over	Under	Over	Under	Over	Under	Over	Under	Over	Under	Over	Under
Under 5	5	3		5.5	3														
5 to 7.5 excl.	4.5	3		5	3	6	3												
7.5 to 10 excl.	4	3		4.5	3	5.5	3												
10 to 12.5 excl.	3.5	2.5		4	3	4.5	3	5.5	3										
12.5 to 15 excl.	3	2.5		3.5	2.5	4	3	4.5	3	5	3	5.5	3	6	3	7	3	8	3
15 to 17.5 excl.	2.5	2.5		3	2.5	3.5	2.5	4	3	4.5	3	5	3	5.5	3	6	3	7	3
17.5 to 20 excl.	2.5	2		2.5	2.5	3	2.5	3.5	2.5	4	3	4.5	3	5	3	5.5	3	6	3
20 to 25 excl.	2	2		2.5	2	2.5	2.5	3	2.5	3.5	2.5	4	3	4.5	3	5	3	5.5	3
25 to 30 excl.	2	2		2	2	2.5	2	2.5	2.5	3	2.5	3.5	3	4	3	4.5	3	5	3
30 to 40 excl.	2	2		2	2	2	2	2.5	2	2.5	2	2.5	2.5	3	2.5	3.5	3	4	3
40 or over	2	2		2	2	2	2	2	2	2.5	2	2.5	2.5	3	2.5	3.5	3	4	3

NOTE.—The weight per square foot of individual plates shall not vary from the ordered weight by more than 1½ times the amount given in this table.

\* The term "lot" applied to this table means all of the plates of each group width and group weight.

NOTE.—The above table applies to our rectangular plates.



# Manufacturers' Standard Practice

Permissible variations in weight and thickness of Sheared Plates. One cubic inch of Rolled Steel is assumed to weigh 0.2833 pound.

## When Ordered to Thickness

The thickness of each plate shall not vary more than 0.01 in. under that ordered. The overweight of each lot (†) in each shipment shall not exceed the amount given in the following table:

Ordered Thickness Inches	PERMISSIBLE EXCESS IN AVERAGE WEIGHTS PER SQUARE FOOT OF PLATES FOR WIDTHS GIVEN, EXPRESSED IN PERCENTAGES OF NOMINAL WEIGHTS								
	Under 48 inches	48 to 60 inches exclusive	60 to 72 inches exclusive	72 to 84 inches exclusive	84 to 96 inches exclusive	96 to 108 inches exclusive	108 to 120 inches exclusive	120 to 132 inches exclusive	132 to 144 inches exclusive
Under $\frac{1}{8}$	9	10	12	14					
$\frac{1}{8}$ to $\frac{3}{16}$ excl.	8	9	10	12				16	19
$\frac{3}{16}$ to $\frac{1}{4}$ excl.	7	8	9	10	12	12	14	14	17
$\frac{1}{4}$ to $\frac{5}{16}$ excl.	6	7	8	9	9	10	12	12	15
$\frac{5}{16}$ to $\frac{3}{8}$ excl.	5	6	7	8	8	9	10	10	13
$\frac{3}{8}$ to $\frac{7}{16}$ excl.	4.5	5	6	7	7	8	9	9	11
$\frac{7}{16}$ to $\frac{1}{2}$ excl.	4	4.5	5	6	6	7	8	8	9
$\frac{1}{2}$ to $\frac{5}{8}$ excl.	3.5	4	4.5	5	5	6	7	7	8
$\frac{5}{8}$ to $\frac{3}{4}$ excl.	3	3.5	4	4.5	5	5	6	6	7
$\frac{3}{4}$ to 1 excl.	2.5	3	3.5	4	4.5	5	5	5	7
1 or over	2.5	2.5	3	3.5	4	4.5	5	6	

† The term "lot" applied to this table means all of the plates of each group width and group thickness.

NOTE.—The above table applies to our rectangular plates.

## Manufacturers' Standard Specifications for Concrete Reinforcement Bars Rolled From Billets

Standard specifications governing the chemical and physical properties of concrete reinforcement bars rolled from billets, as adopted by the Association of American Steel Manufacturers.—Revised April 21, 1914.

### Manufacture

1. Steel may be made by either the open-hearth or Bessemer process. Bars shall be rolled from standard new billets.

2. The chemical and physical properties shall conform to the following limits.

Properties Considered	STRUCTURAL STEEL GRADE		INTERMEDIATE GRADE		HARD GRADE		Cold- Twisted Bars
	Plain Bars	Deformed Bars	Plain Bars	Deformed Bars	Plain Bars	Deformed Bars	
Phosphorus, maximum: Bessemer..... Open-hearth.....	.10 .06	.10 .06	.10 .06	.10 .06	.10 .06	.10 .06	.10 .06
Ultimate tensile strength, pounds per square inch.....	55/70,000	55/70,000	70/85,000	70/85,000	80,000 min.	80,000 min.	Recorded only
Yield point, minimum, pounds per square inch.....	33,000	33,000	40,000	40,000	50,000	50,000	55,000
Elongation, per cent in 8", minimum....	1,400,000	1,250,000	1,300,000	1,125,000	1,200,000	1,000,000	5%
Cold bend without fracture: Bars under $\frac{3}{4}$ " in diameter or thickness	T. S. 180°d. = 1t.	T. S. 180°d. = 1t.	T. S. 180°d. = 2t.	T. S. 180°d. = 3t.	T. S. 180°d. = 3t.	T. S. 180°d. = 4t.	180°d. = 2t.
Bars $\frac{3}{4}$ " in diameter or thickness and over.....	180°d. = 1t.	180°d. = 2t.	90°d. = 2t.	90°d. = 3t.	90°d. = 3t.	90°d. = 4t.	180°d. = 3t.

The intermediate and hard grades will be used only when specified.

### Chemical Determinations

3. In order to determine if the material conforms to the chemical limitations prescribed in paragraph 2 herein, analysis shall be made by the manufacturer from a test ingot taken at the time of the pouring of each melt or blow of steel, and a correct copy of such analysis shall be furnished to the engineer or his inspector.

### Yield Point

4. For the purposes of these specifications, the yield point shall be determined by careful observation of the drop of the beam of the testing machine, or by other equally accurate method.

### Form of Specimens

5. (a) Tensile and bending test specimens may be cut from the bars as rolled, but tensile and bending test specimens of deformed bars may be planed or turned for a length of at least 9 inches if deemed necessary by the manufacturer in order to obtain uniform cross-section.

(b) Tensile and bending test specimens of cold-twisted bars shall be cut from the bars after twisting, and shall be tested in full size without further treatment, unless otherwise specified as in (c), in which case the conditions therein stipulated shall govern.

(c) If it is desired that the testing and acceptance for cold-twisted bars be made upon the hot rolled bars before being twisted, the hot rolled bars shall meet the requirements of the structural steel grade for plain bars shown in this specification.

### Number of Tests

6. (a) At least one tensile and one bending test shall be made from each melt of open-hearth steel rolled, and from each blow or lot of ten tons of Bessemer steel rolled. In case bars differing  $\frac{3}{8}$  inch and more in diameter or thickness are rolled from one melt or blow, a test shall be made from the thickest and thinnest material rolled. Should either of these test specimens develop



flaws, or should the tensile test specimen break outside of the middle third of its gauged length, it may be discarded and another test specimen substituted therefor. In case a tensile test specimen does not meet the specifications, an additional test may be made.

(b) The bending test may be made by pressure or by light blows.

### Modification in Elongation for Thin and Thick Material

7. For bars less than  $\frac{1}{16}$ -inch and more than  $\frac{3}{4}$ -inch nominal diameter or thickness, the following modifications shall be made in the requirements for elongation:

(a) For each increase of  $\frac{1}{8}$  inch in diameter or thickness above  $\frac{3}{4}$  inch, a deduction of 1 shall be made from the specified percentage of elongation.

(b) For each decrease of  $\frac{1}{16}$  inch in diameter or thickness below  $\frac{7}{16}$  inch, a deduction of 1 shall be made from the specified percentage of elongation.

(c) The above modifications in elongation shall not apply to cold-twisted bars.

### Number of Twists

8. Cold-twisted bars shall be twisted cold with one complete twist in a length equal to not more than twelve times the thickness of the bar.

### Finish

9. Material must be free from injurious seams, flaws or cracks, and have a workmanlike finish.

### Variation in Weight

10. Bars for reinforcement are subject to rejection if the actual weight of any lot varies more than 5% over or under the theoretical weight of that lot.



INDEX

	PAGE
Angles .....	Cold Finished Harvester, Diagrams.....68-71
	“ “ “ Dimensions.....68-71
	“ “ “ Weights.....68-71
	Equal Leg, Diagrams.....42-49
	“ “ Dimensions.....42-49
	“ “ Maximum Lengths.....42-49
	“ “ Weights.....42-49
	Odd, Diagrams.....66
	“ Dimensions.....67
	“ Weights.....67
	Round Back, Diagrams.....66
	“ “ Dimensions.....67
	“ “ Weights.....67
	Special, Diagrams.....67
	“ Dimensions.....67
	“ Weights.....67
	Special Square Root, Diagram.....66
	“ “ “ Dimensions.....67
	“ “ “ Weights.....67
	Unequal Leg, Diagrams.....50-65
	“ “ Dimensions.....50-65
	“ “ Maximum Lengths.....50-65
	“ “ Weights.....50-65
Areas of .....	Round Bars.....213-221
	Square Bars.....213-218
Bands .....	and Hoops.....147-148
Bars.....	Areas of Round.....213-221
	“ “ Square.....213-218
	Circumferences of Round.....213-221
	Concrete, Cold Twisted.....143
	“ Diamond.....144
	“ Manufacturer's Standard Specifi- cations.....260-262
	Dropper, Diagrams.....88
	“ Dimensions.....89
	“ Maximum Lengths.....89
	“ Weights.....89

INDEX

	PAGE
Bars.....Finger, Diagrams.....	92
"        Dimensions.....	93
"        Weights.....	93
Harvester, Diagrams.....	92
"        Dimensions.....	93
"        Weights.....	93
Manufacturer's Standard Specifications for	
Concrete.....	260-262
Reaper and Harvester, Diagrams.....	92
"        "        Dimensions.....	93
"        "        Weights.....	93
Round, Areas of.....	213-221
"        Circumferences of.....	213-221
"        Weights of.....	213-221
Sash, Diagrams.....	108
"        Dimensions.....	109
"        Weights.....	109
Screen, Diagrams.....	102
"        Dimensions.....	103
"        Weights.....	103
Square, Areas of.....	213-218
"        Weights of.....	213-218
U, Diagrams.....	110
"        Dimensions.....	111
"        Weights.....	111
Beams.....Cultivator, Diagrams.....	98
"        Dimensions.....	99
"        Weights.....	99
I, Diagrams.....	8-21
"        Dimensions.....	8-21
"        Maximum Lengths.....	8-21
"        Weights.....	8-21
Plow, Diagrams.....	94-97
"        Dimensions.....	94-97
"        Weights.....	94-97
Special, Diagrams.....	20
"        Dimensions.....	21

INDEX

	PAGE
Beams.....	Special, Maximum Lengths.....21
	“ Weights.....21
	Weights of Cultivator.....98-99
	“ “ I.....8-21
	“ “ Plow.....94-97
	“ “ Special.....21
Bevel Back.....	Channel.....38-39
Bevel Edge.....	Diagrams.....106
	Dimensions.....107
	Weights.....107
	Wagon Box, Diagrams.....139
	“ “ Dimensions.....139-140
	“ “ Weights.....139-140
Binder.....	Section, Diagrams.....92
	“ Dimensions.....93
	“ Weights.....93
Blunt.....	Ovals, Diagrams.....136
	“ Dimensions.....136
	“ Weights.....136
Boat.....	Spikes.....130-131
Bolts.....	Required per Mile of Track.....129
Button.....	Head Spikes.....130-131
Can.....	Ring Sections, Diagrams.....110
	“ “ Dimensions.....111
	“ “ Weights.....111
Channels.....	22-41
	Bevel Back, Diagrams.....38
	“ “ Dimensions.....39
	“ “ Weights.....39
	Box, Diagrams.....36
	“ Dimensions.....37
	“ Weights.....37
	Round Back, Diagrams.....38
	“ “ Dimensions.....39
	“ “ Weights.....39
	Ship Building, Diagrams.....28-31
	“ “ Dimensions.....28-31

INDEX

	PAGE
Channels.....Ship Building, Maximum Lengths .....	28-31
“ “ Weights.....	28-31
Special, Diagrams.....	32-37
“ Dimensions .....	32-37
“ Weights.....	32-37
Special Beaded, Diagrams.....	40
“ “ Dimensions.....	41
“ “ Weights.....	41
Special Tire, Diagrams .....	40
“ “ Dimensions .....	41
“ “ Weights .....	41
Standard, Diagrams .....	22-25
“ Dimensions .....	22-25
“ Maximum Lengths .....	22-25
“ Weights .....	22-25
Circular Plates.....Dimensions.....	152
Weights .....	209-212
Circumferences of ...Round Bars.....	213-221
Clamps.....Guy, Diagrams.....	112
“ Dimensions .....	112
“ Weights.....	112
Suspension, Diagrams .....	113
“ Dimensions .....	113
“ Weights .....	113
Coiled Rounds.....Dimensions.....	141
Weights .....	141
Cold Finished.....Flats, Dimensions .....	156
Hexagons, Dimensions.....	155
“ Weights.....	155
Rounds, Dimensions.....	153-154
“ Weights .....	153-154
Squares, Dimensions.....	155
“ Weights.....	155
Comparison of.....Gauges .....	233
Concrete Bars.....Diamond.....	144
Square Twisted .....	143
Manufacturer's Standard Specifications for .....	260-262



INDEX

	PAGE
Cultivator Beams .....	98
Diagrams.....	98
Dimensions.....	99
Weights.....	99
Curved Section .....	110
Diagrams.....	110
Dimensions.....	111
Weights.....	111
Cylinder Lag .....	104
Diagrams.....	104
Dimensions.....	105
Weights.....	105
Decimals of.....	230-231
Foot for each 1-64 inch.....	230-231
Inch for each 1-64 inch.....	232
Diagrams .....	68-71
Angles, Cold Finished Harvester .....	68-71
" Equal Leg.....	42-49
" Odd.....	66
" Round Back.....	66
" Special.....	66
" Special Square Root.....	66
" Unequal Leg.....	50-65
Bars, Dropper.....	88
" Finger.....	92
" Harvester.....	92
" Reaper and Harvester .....	92
" Sash.....	108
" Screen .....	102
" U .....	110
Beams, Cultivator .....	98
" I.....	8-21
" Plow.....	94-97
" Special.....	20
Bevel Edge.....	106
" Wagon Box.....	139
Binder Section.....	92
Blunt Ovals.....	136
Can Ring Sections.....	110
Channels, Bevel Back.....	38
" Box .....	36
" Round Back.....	38

INDEX

	PAGE
Diagrams ..... Channels, Ship Building.....	28-31
“ Special.....	32-37
“ “ Beaded.....	40
“ “ Tire.....	40
“ Standard.....	22-25
Clamps, Guy.....	112
“ Suspension.....	113
Curved Sections.....	110
Cylinder Lag.....	104
Flats, Nut Steel.....	138
Follower Plate.....	114
Guy Clamps.....	112
Half Ovals.....	133-135
“ Rounds.....	138
Harrow Tooth.....	108
Harvester Tires.....	90
Heater Band.....	108
Hexagons.....	137
Hoe Point.....	106
I Beams, Standard.....	8-21
Nut Steel.....	138
Oval Edge.....	132
Ovals, Blunt.....	136
“ Half.....	135
“ “ Special.....	133
“ Sharp.....	136
Plates, Follower.....	114
“ Reach.....	132
“ Wearing.....	88
Plow Beams.....	94-97
Punching of Rails.....	120-127
Rack Rails.....	100
Rails, Rack.....	100
Rails, T.....	120-127
Reach Plates.....	132
Round Edge Flats.....	145
“ “ Tire.....	146

INDEX

	PAGE
Diagrams.....	141
Rounds.....	138
"    Half.....	120-127
Splice Bars.....	142
Squares.....	108
Sash Bar.....	102
Screen Bar.....	136
Sharp Ovals.....	117
Sheet Piling.....	113
Suspension Clamp.....	114
Switch Plate.....	72-77
Tees, Equal Leg.....	78-81
"    Unequal Leg.....	146
Tire, Round Edge.....	90
Tires, Beaded and Ribbed Harvester.....	90
"    Beaded Harvester.....	92
"    Tractor.....	110
U Bars.....	139
Wagon Box Bevel Edge.....	114
Washer Section.....	88
Wearing Plates.....	86-87
Zee Bars, Cold Finished Harvester.....	82-87
"    "    Standard.....	68-71
Dimensions.....	42-49
Angles, Cold Finished Harvester.....	67
"    Equal Leg.....	67
"    Odd.....	67
"    Round Back.....	67
"    Special.....	67
"    Special Square Root.....	67
"    Unequal Leg.....	50-65
Band, Heater.....	109
Bars, Dropper.....	89
"    Finger.....	93
"    Harvester.....	93
"    Reaper and Harvester.....	93
"    Sash.....	109
"    Screen.....	103
"    U.....	111

INDEX

	PAGE
Dimensions.....	99
Beams, Cultivator.....	99
"    I.....	8-21
"    Plow.....	94-97
"    Special.....	21
Bevel Edge.....	107
"    "    Wagon Box.....	139
Binder Section.....	93
Blunt Ovals.....	136
Can Ring Sections.....	111
Channels, Bevel Back.....	39
"    Box.....	37
"    Round Back.....	39
"    Ship Building.....	28-31
"    Special.....	32-37
"    "    Beaded.....	41
"    "    Tire.....	41
"    Standard.....	22-25
Circular Plates.....	152
Clamps, Guy.....	112
"    Suspension.....	113
Coiled Rounds.....	141
Cold Finished Flats.....	156
"    "    Hexagons.....	155
"    "    Rounds.....	153-154
"    "    Squares.....	155
Cultivator Beams.....	99
Curved Section.....	111
Cylinder Lag.....	105
Flat Rolled Steel.....	147-148
Flats, Nut Steel.....	138
Follower Plate.....	115
Guy Clamps.....	112
Half Ovals.....	134-135
Half Rounds.....	138
Harrow Tooth.....	109
Harvester Tires.....	91
Hexagons.....	137



INDEX

	PAGE
Dimensions .....	Hexagons, Cold Finished.....155
	Hoe Point .....107
	Nut Steel Flats .....138
	Oval Edge.....132
	Ovals, Blunt.....136
	"    Half.....135
	"    " Special .....133-134
	"    Sharp.....136
	Piling, Steel .....116
	Plates, Circular.....152
	"    Follower.....115
	"    Reach.....132
	"    Sheared.....150-151
	"    Universal Mill.....149
	"    Wearing.....88
	Plow Beams.....94-97
	Rack Rails.....101
	Rails, Rack.....101
	"    T.....120-127
	Reach Plates.....132
	Round Edge Flats.....145
	"    " Tire.....146
	Rounds.....141
	"    Cold Finished.....153-154
	"    Half.....138
	"    Coiled.....141
	Sash Bar.....109
	Screen Bar.....103
	Sharp Ovals.....136
	Sheared Plates.....150-151
	Sheet Piling.....116
	Spikes.....131
	Splice Bars.....120-127
	Squares.....142
	"    Cold Finished.....155
	Suspension Clamps.....113
	Switch Plates.....115

INDEX

	PAGE
Dimensions.....	Tees, Equal Leg .....72-77
	“ Unequal Leg .....78-81
	Tire, Round Edge .....146
	Tires, Beaded and Ribbed Harvester.....91
	“ Beaded Harvester.....91
	“ Tractor .....93
	U Bars.....111
	Universal Mill Plates.....149
	Wagon Box Bevel Edge .....139-140
	Washer Section.....115
	Wearing Plates.....88
	Zee Bars, Cold Finished Harvester .....87
	“ “ Standard.....82-87
Dropper Bars.....	Diagrams .....88
	Dimensions.....89
	Maximum Lengths.....89
	Weights .....89
Finger Bars.....	Diagrams .....92
	Dimensions.....93
	Weights .....93
Fish Plates.....	and Bolts Required per Mile.....129
Flat Rolled Steel.....	Dimensions.....147-148
	Weights.....158-208
Flats.....	Cold Finished.....156
	Nut Steel, Diagrams .....138
	“ “ Dimensions.....138
	“ “ Weights.....138
	Round Edge, Dimensions.....145
	“ “ Weights .....222-225
	Square Edge.....147
Follower Plate.....	Diagrams.....114
	Dimensions.....115
	Weights.....115
Gauge.....	Birmingham Wire.....235
Gauges.....	Comparison of Sheet and Plate Iron and Steel,233-234
Guy Clamps.....	Diagrams.....112
	Dimensions.....112
	Weights.....112

INDEX

	PAGE
Half Ovals .....	Diagrams.....133-135
	Dimensions.....134-135
	Weights.....134-135
Half Rounds.....	Diagrams.....138
	Dimensions.....138
	Weights.....138
Harrow Tooth.....	Diagrams.....108
	Dimensions.....109
	Weights.....109
Harvester Tires.....	Diagrams.....90
	Dimensions.....91
	Weights.....91
Heater Band.....	Diagrams.....108
	Dimensions.....109
	Weights.....109
Hexagons .....	Diagrams.....137
	Dimensions.....137
	Weights.....137
	Cold Finished, Dimensions.....155
	“ “ Weights.....155
Hoe Point.....	Diagrams.....106
	Dimensions.....107
	Weights.....107
Hoops.....	147-148
I Beams .....	Diagrams.....8-21
	Dimensions.....8-21
	Maximum Lengths.....8-21
	Weights.....8-21
Manufacturer's .....	Standard Specifications
	Structural and Boiler Steel.....248-259
	Concrete Bars.....260-262
Maximum Lengths .....	Angles, Equal Leg.....42-49
	“ Unequal Leg.....50-65
	Dropper Bars.....89
	Beams, I.....8-21
	“ Special.....21

INDEX

	PAGE
Maximum Lengths..Channels, Ship Building.....	28-31
"    Standard.....	22-25
Squares.....	142
Tees, Equal Legs.....	72-77
"    Unequal Legs.....	78-81
Universal Mill Plates.....	149
Zees.....	83-85
Metric.....Equivalents..	236-247
Mine Rails.....	
Diagrams.....	120-127
Dimensions.....	120-127
Drilling.....	120-127
Weights.....	120-127
Nail.....	
Head Spikes.....	130-131
Nut Steel Flats.....	
Diagrams.....	138
Dimensions.....	138
Weights.....	138
Offices.....	
J. & L.....	2
Oval Edge.....	
Diagrams.....	132
Dimensions.....	132
Weights.....	132
Ovals.....	
Blunt, Diagrams.....	136
"    Dimensions.....	136
"    Weights.....	136
Half, Diagrams.....	135
"    Dimensions.....	135
"    Weights.....	135
"    Special, Diagrams.....	133
"    Dimensions.....	134
"    Weights.....	134
Sharp, Diagrams.....	136
"    Dimensions.....	136
"    Weights.....	136
Piling.....	
Steel, Diagrams.....	117
"    Dimensions.....	116
"    Properties.....	118-119
"    Weights.....	116



INDEX

	PAGE
Plates .....Circular, Dimensions .....	152
"        Weights .....	209-212
Follower, Diagrams.....	114
"        Dimensions.....	115
"        Weights.....	115
Reach, Diagrams.....	132
"        Dimensions.....	132
"        Weights .....	132
Sheared, Dimensions.....	150-151
Universal Mill, Dimensions.....	149
Maximum Lengths .....	149
Wearing, Diagrams.....	88
"        Dimensions .....	89
"        Weights .....	89
Plow Beams .....Diagrams.....	94-97
Dimensions.....	94-97
Weights.....	94-97
Products .....J. & L.....	4-5
Punching of .....Rails .....	120-127
Splice Bars .....	120-127
Rack Rails .....Diagrams .....	100
Dimensions.....	101
Weights.....	101
Rails .....Punching of Steel.....	120-127
Rack, Diagrams .....	100
"        Dimensions.....	101
"        Weights.....	101
Required per Mile of Track .....	128
T, Diagrams.....	120-127
"        Dimensions .....	120-127
"        Weights .....	120-127
Railroad Spikes.....	130-131
Reach Plates.....Diagrams .....	132
Dimensions.....	132
Weights.....	132
Round Back.....Channels, Diagrams .....	38
"        Dimensions .....	39

INDEX

	PAGE
Round Back.....	Channels, Weights .....39
Round Bars .....	Areas.....213-221
	Circumferences.....213-221
	Weights.....213-221
Round Edge .....	Flats, Diagrams.....145
	“ Dimensions.....145
	“ Weights.....145, 222-225
	Tire, Diagrams.....146
	“ Dimensions.....146
	“ Weights.....146, 226-229
Rounds.....	Coiled, Dimensions.....141
	“ Weights.....141
	Cold Finished, Dimensions.....153-154
	Half, Diagrams.....138
	“ Dimensions.....138
	“ Weights.....138
	Dimensions.....141
Sash Bars .....	Diagrams .....108
	Dimensions.....109
	Weights.....109
Screen Bars.....	Diagrams.....102
	Dimensions .....103
	Weights.....103
Sharp Ovals.....	Diagrams.....136
	Dimensions .....136
	Weights.....136
Sheared Plates.....	Dimensions.....150-151
Sheet Piling .....	Diagrams .....117
	Dimensions.....116
	Properties .....118-119
	Weights .....116
Ship Building .....	Channels, Diagrams.....28-31
	“ Dimensions.....28-31
	“ Maximum Lengths.....28-31
	“ Weights.....28-31
Specifications.....	Manufacturer's Standard for
	Boiler and Rivet Steel.....248-259
	Concrete Bars.....260-262

INDEX

	PAGE
Spikes .....	Barge.....130-131
	Boat.....130-131
	Button Head.....130-131
	Nail Head.....130-131
	Railroad.....130-131
Splice Bars .....	Diagrams.....120-127
	Dimensions.....120-127
	Punching of.....120-127
Splice Joints.....	Required for one ton of Rail.....129
Square Bars.....	Areas of.....213-218
	Weights.....213-218
Square.....	Edge Flats.....147
	Twisted Concrete Bars.....143
Squares.....	Cold Finished.....155
	Diagrams.....142
	Dimensions.....142
	Maximum Lengths.....142
Standard.....	Specifications for Structural and Boiler Steel 248-259
	Concrete Reinforcement Bars.....260-262
Suspension Clamps.....	Diagrams.....113
	Dimensions.....113
	Weights.....113
Switch Plates.....	Diagrams.....114
	Dimensions.....115
	Weights.....115
Tables of.....	Decimals of Foot for each 1-64 inch.....230-231
	Inch for each 1-64 inch.....232
	Metric Equivalents.....236-247
	Weights of Flat Rolled Steel.....158-208
Tees .....	Equal Leg, Diagrams.....72-77
	“ “ Dimensions.....72-77
	“ “ Maximum Weights.....72-77
	“ “ Weights.....72-77
	Unequal Leg, Diagrams.....78-81
	“ “ Dimensions.....78-81
	“ “ Maximum Lengths.....78-81
	“ “ Weights.....78-81

INDEX

	PAGE
Tire .....	Round Edge, Diagrams.....146
	“ “ Dimensions.....146
	“ “ Weights.....226-229
	Channels, Diagrams.....40
	“ Dimensions.....41
	“ Weights.....41
Tires.....	Beaded and Ribbed Harvester, Diagrams.....90
	“ “ “ “ Dimensions.....91
	“ “ “ “ Weights.....91
	Beaded Harvester, Diagrams.....90
	“ “ Dimensions.....91
	“ “ Weights.....91
	Tractor, Diagrams.....92
	“ Dimensions.....93
	“ Weights.....93
Twisted Bars .....	Cold Concrete.....143
	Diamond.....144
U Bars.....	Diagrams.....110
	Dimensions.....111
	Weights.....111
U. S. ....	Standard Gauges for Sheet and Plate Iron and
	Steel.....234
U. S. ....	and Metric Equivalents.....236-247
Universal .....	Mill Plates, Dimensions.....149
	“ “ Maximum Lengths.....149
Wagon Box .....	Bevel Edge, Diagrams.....139-140
	“ “ Dimensions.....139-140
	“ “ Weights.....139-140
Washer Section .....	Diagrams.....114
	Dimensions.....115
	Weights.....115
Wearing Plates .....	Diagrams.....88
	Dimensions.....89
Weights of .....	Angles, Cold Finished Harvester.....68-71
	“ Equal Leg.....42-49
	“ Odd.....67
	“ Round Back.....67



INDEX

	PAGE
Weights of .....Angles, Special.....	67
“ “ Square Root.....	67
“ Unequal Leg.....	50-65
Bars, Dropper.....	89
“ Finger.....	93
“ Harvester.....	93
“ Reaper and Harvester.....	93
“ Round.....	213-221
“ Sash.....	109
“ Screen.....	103
“ Square.....	213-218
Beams, Cultivator.....	99
“ I.....	8-21
“ Plow.....	94-97
“ Special.....	21
Bevel Edge.....	107
“ “ Wagon Box.....	139-140
Binder Section.....	93
Blunt Ovals.....	136
Can Ring Sections.....	111
Channels, Bevel Back.....	39
“ Box.....	37
“ Round Back.....	39
“ Ship Building.....	28-31
“ Special.....	32-37
“ “ Beaded.....	41
“ “ Tire.....	41
“ Standard.....	22-25
Circular Plates.....	209-212
Clamps, Guy.....	112
“ Suspension.....	113
Coiled Rounds.....	141
Cold Finished Hexagons.....	155
“ “ Rounds.....	153-154
“ “ Squares.....	155
Cylinder Lag.....	105
Dropper Bars.....	89

INDEX

	PAGE
Weights of ..... Finger Bars.....	93
Flat Rolled Steel .....	158-208
Flats, Nut Steel .....	138
" Round Edge.....	222-225
Harrow Tooth.....	109
Heater Band.....	109
Hexagons.....	137-155
Hoe Point.....	107
I Beams.....	8-21
Mine Rails.....	120-127
Nut Steel Flats.....	138
Oval Edge.....	132
Ovals, Blunt.....	136
" Half.....	135
" " Special.....	134
" Sharp.....	136
Piling, Steel.....	116
Plates, Circular.....	209-212
" Follower.....	115
" Reach.....	132
" Wearing.....	89
Plow Beams.....	94-97
Rack Rails.....	101
Rails, T.....	120-127
Reach Plates.....	132
Round Back Channels.....	39
Round Bars.....	141, 213-221
Round Edge Flats.....	145, 222-224
" " Tire.....	146, 226-229
Rounds, Coiled.....	141
" Cold Finished.....	153-154
" Half.....	138
Sash Bars.....	109
Screen Bars.....	103
Sharp Ovals.....	136
Sheet Piling.....	116
Square Bars.....	155, 213-218

INDEX

	PAGE
Weights of .....	
Suspension Clamps .....	113
Switch Plates .....	114-115
Tees, Equal Leg .....	72-77
" Unequal Leg .....	78-81
Tire, Round Edge .....	226-229
Tire Channels .....	41
Tires, Beaded and Ribbed Harvester .....	91
Beaded Harvester .....	91
Tractor .....	93
U Bars .....	111
Wagon Box, Bevel Edge .....	139-140
Washer Section .....	115
Zee Bars, Cold Finished Harvester .....	87
" " Standard .....	82-87
Wire Gauge.....	
Birmingham .....	235
Zee Bars.....	
Cold Finished Harvester .....	86-87
" " " Diagrams .....	86
" " " Dimensions .....	87
" " " Weights .....	87
Standard .....	82-87
" Diagrams .....	82-87
" Dimensions .....	82-87
" Maximum Lengths .....	82-85
" Weights .....	82-87

TABLE 1

Year	Area	Population	Area	Population
1964	Alaska	100,000	Alaska	100,000
1963	Alaska	95,000	Alaska	95,000
1962	Alaska	90,000	Alaska	90,000
1961	Alaska	85,000	Alaska	85,000
1960	Alaska	80,000	Alaska	80,000
1959	Alaska	75,000	Alaska	75,000
1958	Alaska	70,000	Alaska	70,000
1957	Alaska	65,000	Alaska	65,000
1956	Alaska	60,000	Alaska	60,000
1955	Alaska	55,000	Alaska	55,000
1954	Alaska	50,000	Alaska	50,000
1953	Alaska	45,000	Alaska	45,000
1952	Alaska	40,000	Alaska	40,000
1951	Alaska	35,000	Alaska	35,000
1950	Alaska	30,000	Alaska	30,000
1949	Alaska	25,000	Alaska	25,000
1948	Alaska	20,000	Alaska	20,000
1947	Alaska	15,000	Alaska	15,000
1946	Alaska	10,000	Alaska	10,000
1945	Alaska	5,000	Alaska	5,000
1944	Alaska	2,000	Alaska	2,000
1943	Alaska	1,000	Alaska	1,000
1942	Alaska	500	Alaska	500
1941	Alaska	200	Alaska	200
1940	Alaska	100	Alaska	100
1939	Alaska	50	Alaska	50
1938	Alaska	25	Alaska	25
1937	Alaska	10	Alaska	10
1936	Alaska	5	Alaska	5
1935	Alaska	2	Alaska	2
1934	Alaska	1	Alaska	1
1933	Alaska	0	Alaska	0
1932	Alaska	0	Alaska	0
1931	Alaska	0	Alaska	0
1930	Alaska	0	Alaska	0
1929	Alaska	0	Alaska	0
1928	Alaska	0	Alaska	0
1927	Alaska	0	Alaska	0
1926	Alaska	0	Alaska	0
1925	Alaska	0	Alaska	0
1924	Alaska	0	Alaska	0
1923	Alaska	0	Alaska	0
1922	Alaska	0	Alaska	0
1921	Alaska	0	Alaska	0
1920	Alaska	0	Alaska	0
1919	Alaska	0	Alaska	0
1918	Alaska	0	Alaska	0
1917	Alaska	0	Alaska	0
1916	Alaska	0	Alaska	0
1915	Alaska	0	Alaska	0
1914	Alaska	0	Alaska	0
1913	Alaska	0	Alaska	0
1912	Alaska	0	Alaska	0
1911	Alaska	0	Alaska	0
1910	Alaska	0	Alaska	0
1909	Alaska	0	Alaska	0
1908	Alaska	0	Alaska	0
1907	Alaska	0	Alaska	0
1906	Alaska	0	Alaska	0
1905	Alaska	0	Alaska	0
1904	Alaska	0	Alaska	0
1903	Alaska	0	Alaska	0
1902	Alaska	0	Alaska	0
1901	Alaska	0	Alaska	0
1900	Alaska	0	Alaska	0



